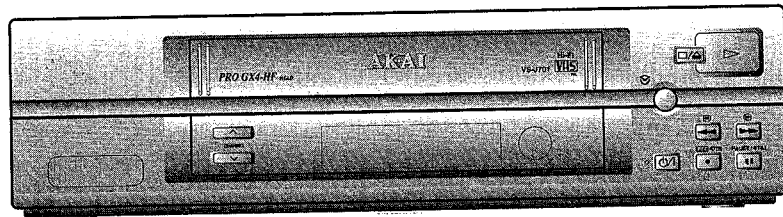
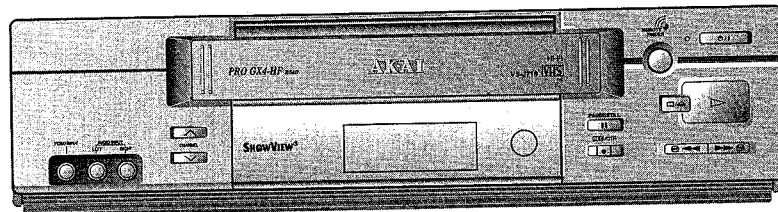


AKAI SERVICE MANUAL



MODEL : VS-J701EO-D

HQ **VHS**
HIGH QUALITY PAL



SHOWVIEW® MODEL : VS-J718EO-D

HQ **VHS**
HIGH QUALITY PAL



VIDEO CASSETTE RECORDER
MODELS VS-J200/218/418EO
MODELS VS-J701/718EO-D,EO-DN

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SECTION 4 MECHANISM

NOTE) The table of contents for this section is edited separately.

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SECTION1 SUMMARY

KEY TO ABBREVIATIONS

A	AC	:Alternating Current
	ACC	:Automatic Color Control
	ACSS	:Automatic Channel Setting System
	ADJ	:Adjust
	A/E	:Audio Erase
	AFC	:Automatic Frequency Control
	AFT	:Automatic Fine Tuning
	AGC	:Automatic Gain Control
	A.H.SW	:Audio Head Switch
	ALC	:Automatic Level Control
	AM	:Amplitude Modulation
	AMP	:Amplifier
	ANT	:Antenna
B	APC	:Automatic Phase Control
	ASS'Y	:Assembly
	AUX	:Auxiliary
	B	:Base
	BGP	:Burst Gate Pulse
	BPF	:Bandpass Filter
	BS	:Broadcasting Satellite
	BW or B/W	:Black and White
	C	:Capacitor, Chroma, Collector
	CAN	:Cancel
	CAP	:Capstan
	CAP.BRK	:Capstan Brake
C	CAP.RVS	:Capstan Reverse
	CATV	:Cable Television
	CBA	:Circuit Board Assembly
	CCD	:Charge Coupled Device
	C.CTL	:Chro Control, Capstan Control
	CFG	:Capstan Frequency Generator
	CHROMA	:Chrominance
	CNR	:Chroma Noise Reduction
	COMB	:Combination
		Comb Filter
	COMP	:Comparator
		Composite
		Compensation
D	CONV	:Converter
	C.ROT SW	:Color Rotary Switch
	CS	:Chip Select
	C.SYNC	:Composite Synchronization
	CTL DIV	:Control Divide
	CUR	:Current
	CYL	:Cylinder
	D	:Drum, Digital, Diode, Drain
	D.ADJ	:Drum Adjust
	DC	:Direct Current
	D.CTL	:Drum Control
	DEMOD	:Demodulator
	DET	:Detector
E	DEV	:Deviation
	DHP	:Double High Pass
	DIGITRON	:Digital Display Tube
	DL	:Delay line
	DOC	:Drop Out Compensator
	DUB	:Dubbing
	D.V SYNC	:Dummy Vertical Synchronization
	E	:Emitter
	EE	:Electric to Electric
	EMPH	:Emphasis
	ENA	:Enable
	ENV	:Envelope
	EP	:Extended Play
F	EQ	:Equalizer
	EXP	:Expander
	F	:Fuse
	FB	:Feed Back
	FBC	:Feed Back Clamp
	FE	:Full Erase
	FG	:Frequency Generator
	FL	:Filter
	FM	:Frequency Modulation
	F/R	:Front/Rear
	FS	:Frequency Synthesizer
	FSC	:Subcarrier Frequency
	F/V	:Frequency Voltage
G	GEN	:Generator
	H	:High, Horizontal
	I	:Integrated Circuit
	IF	:Intermediate Frequency
	INS	:Insert
	L	:Low, Left, Coil
	LD	:LED
	LD VTG CTL	:Loading Voltage Control
	LECHA	:Letter Character
	L.M	:Level Meter
	LP	:Long Play

M	LPF	:Low Pass Filter
	MAX	:Maximum
	MD	:Modulator
	MECHA.CTL	:Mechanism Control
	MIC	:Microphone
	MIN	:Minimum
	MIX	:Mixer, Mixing
	M.M.	:Monostable, Multivibrator
	MMV	:Mono Multi Vibrator
	MOD	:Modulation, Modulator
	MODEM	:Modulator-Demodulator
	MPX	:Multiplex
N	NR	:Noise Reduction
	OSC	:Oscillator
	OSD	:On Screen Display
	P	:Playback
	PB	:Printed Circuit Board
	PCB	:Power Control
	P.CTL	:Preamp
	PRE-AMP	:Preamp
	P.F	:Power Failure
	PG	:Pulse Generator
	PLL	:Phase Locked Loop
	PREM.DET	:Premire Detect
O	PP	:Peak-to-Peak
	PS	:Phase Shift
	PWM	:Pulse Width Modulation
	PWR CTL	:Power Control
	Q	:Transistor
	QH	:Quasi Horizontal
	QSR	:Quick Setting Record
	QTR	:Quick Timer Record
	QV	:Quasi Vertical
	R	:Resistor, Right
	RE(or RC)	:Remocon, Receiver
	REC	:Recording
P	REC S 'H'	:Record Start 'High'
	REF	:Reference
	REG	:Regulated, Regulator
	REMOCON	:Remote Control(unit)
	RF	:Radio Frequency
	R/P	:Record/Playback
	RTC	:Reel Time Counter
	S	:Serial
	S.ACCEL	:Slow Accel
	SAOP	:Second Audio Program
	SC	:Scart, Simulcast
	S.DET	:Secam Detect
	SH	:Shift
Q	SHARP	:Sharpness
	SIF	:Sound Intermediate Frequency
	SLD	:Side Locking
	S/N	:Signal to Noise Ratio
	SP	:Standard Play
	ST	:Stereo
	SUB	:Subtract, Subcarrier
	SW or S/W	:Switch
	SYNC	:Synchronization
	SYSCON	:System Control
	T	:Coil
	TP	:Test Point
R	TR	:Transistor
	TRK	:Tracking
	TRANS	:Transformer
	TU	:Tuner, Take-up
	UHF	:Ultra High Frequency
	UNREG	:Unregulated
	V	:Volt, Vertical
	VA	:Always Voltage
	VCO	:Voltage Controlled Oscillator
	VGC	:Voltage Gain Control
	VHF	:Very High Frequency
	V.H.SW	:Video Head Switch
	VISS	:VHS Index Search
S	VPS	:Video Program System
	VR	:Variable Resistor or Volume
	V-SYNC	:Vertical Synchronization
	VTG	:Voltage
	VV	:Voltage to Voltage
	VXO	:Voltage X-tal Oscillator
	W	:Watt
	WHT	:White
	W/O	:With out
	X	:Crystal
	X-TAL	:Crystal
	Y	:Luminance/Chrominance
	Y/C	:Luminance/Chrominance
T	YNR	:Luminance Noise Reduction
	Z	:Zener Diode
	ZD	:Zener Diode

IMPORTANT SAFETY PRECAUTIONS

Prior to shipment from the factory, the products are strictly inspected to conform with the recognized product safety and electrical codes of the countries in which they are to be sold. However, in order to maintain such compliance, it is equally important to implement the following precautions when a set is being serviced.

• Precautions during Servicing

1. Locations requiring special caution are denoted by labels and inscriptions on the cabinet, chassis and certain parts of the product. When performing service, be sure to read and comply with these and other cautionary notices appearing in the operation and service manuals.
2. Parts identified by the $\triangle$ symbol and shaded (■) parts are critical for safety.
Replace only with specified part numbers.
Note : Parts in this category also include those specified to comply with X-ray emission standards for products using cathode ray tubes and those specified for compliance with various regulations regarding spurious radiation emission.
3. Use Specified internal wiring. Note especially:
 - 1) Double insulated wires
 - 2) High voltage leads
4. Use specified insulating materials for hazardous live parts. Note especially:
 - 1) Insulation Tape
 - 2) PVC tubing
 - 3) Spacers
 - 4) Insulation sheets for transistor
5. Observe that wires do not contact heat producing parts (heatsinks, oxide metal film resistors, fusible resistors, etc.)
6. Check that replaced wires do not contact sharp edged or pointed parts.
7.
 - 1) When a power cord has been replaced, check that A mark is made on the cord, under strain, near the aperture, and the flexible cord is subjected 100 times to a pull of 40N for a duration of 1 second each.
 - 2) During the test, the cord shall not be displaced by more than 2mm
8. Also check areas surrounding repaired locations.

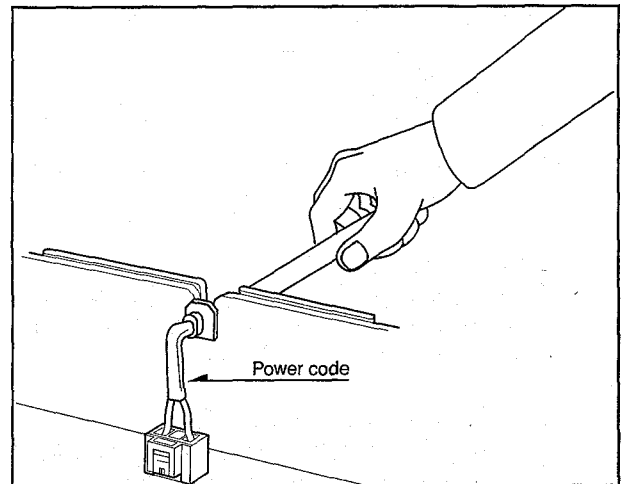


Fig. 1

SAFETY CHECK AFTER SERVICING

Examine the area surrounding the repaired location for damage or deterioration. Observe that screws, parts and wires have been returned to original positions. Afterwards, perform the following tests and confirm the specified values in order to verify compliance with safety standards.

- **Insulation resistance test**

confirm the specified insulation resistance or greater between power cord plug prongs and externally exposed parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, incrophone jacks, earphone jacks, etc.) See table below.

- **Dielectric strength test**

Confirm specified dielectric strength or greater between power cord prongs and exposed accessible parts of the set (RF terminals, antenna terminals, video and audio input and output terminals, incrophone jacks, earphone jacks, etc.) See table below.

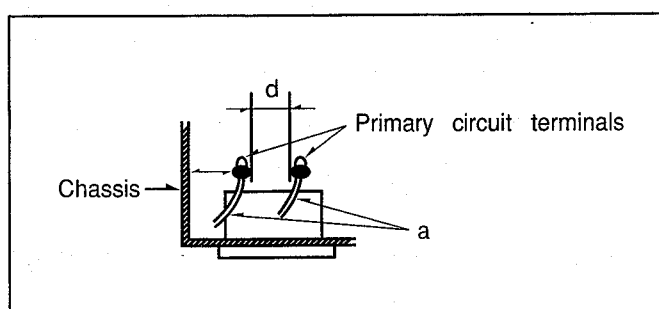


Fig. 2

- Clearance distance

When replacing primary circuit components, confirm specified clearance distance (d), (d') between soldered terminals, and between terminals and surrounding metallic parts. See table below.

Table 1 : Ratings for selected areas

AC Line Voltage	Region	Insulation Resistance	Dielectric Strength	Clearance Distance(d),(d)
*100 to 130 V 200 to 240 V	Europe Australia	$\geq 10 \text{ M}\Omega/500 \text{ V DC}$	4kV 1 minute	$\geq 6\text{mm(d)}$ $\geq 8\text{mm(d)}$ (a Power cord)

* Class II model only.

Note. This table is unofficial and for reference only. Be sure to confirm the precise values for your particular country and locality.

- **Leakage Current test**

Confirm specified or lower leakage current between B(earth ground, power cord plug prongs) and externally exposed accessible parts (RF terminals, antenna terminals, video and audio input and output terminals, microphone jacks, earphone jacks, etc.)

Measuring Method: (Power ON)

Insert load Z between B(earth ground, power cord plug prongs) and exposed accessible parts. Use an AC voltmeter to measure across both terminals of load Z. See figure and following table.

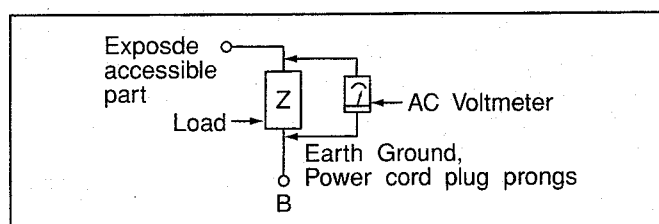


Fig. 3

Table 2: Leakage current ratings for selected areas.

AC Line Voltage	Region	Load Z	Leakage Current(i)	Earth Ground (B) to :
100 to 130 V	Europe	 2kΩ	i ≤ 0.7m A peak i ≤ 2m A DC	Antenna earth terminals
200 to 240 V	Australia	 50kΩ	i ≤ 0.7m A peak i ≤ 2m A DC	Other terminals

Note. This table is for IEC member only. Be sure to confirm the precise values for your particular country and locality.

SPECIFICATIONS

Power:	220-240V~, 50Hz.
Power consumption	Approx. 20 watts(VS-J701/718EO-D,EO-DN), 18 watts(VS-J200/218/418EO) (Energy saving mode: 3 watts)
Video Head system	Double azimuth 4 heads, helical scanning system (VS-J701/718EO-D,EO-DN/418EO) Rotary 2 heads, helical scanning system(VS-J200/218EO)
Tape speed	23.39 mm/sec (SP mode)/ 11.69 mm/sec (LP mode)
Tape format	Tape width 1/2" (12.7 mm high density VHS tape)
Maximum recording time	4 hours in SP mode/8 hours in LP mode (with E-240 tape)
Rewind time	Approx. 180 sec. (with E-180 tape)
Dimensions (W X H X D)	14.2" X 3.7" X 10.6" (360 X 94 X 270 mm)
Weight	7.5.0lbs. (3.4 kg)
Operating temperature	41°F-95°F (5°C-35°C)
Operating humidity	Less than 80 %
Timer	24 hours display type
Video	
Input level	VIDEO IN (SCART, RCA type) 1.0 Vp-p, 75 ohm, unbalanced
Output level	VIDEO OUT (SCART type) 1.0 Vp-p, 75 ohm, unbalanced
Signal to noise ratio	More than 43 dBm
RF modulator	UHF channels 22-68 (Adjustable) (Preset CH 36)
Audio	
Input level	AUDIO IN (SCART, RCA type) SCART type: -5 dBm, more than 10 kΩ RCA type: -5 dBm, more than 47 kΩ
Output level	AUDIO OUT (SCART, RCA type) SCART type: -5 dBm, less than 1 kΩ RCA type: -5 dBm, less than 1 kΩ
Audio track	Mono track & Hi-Fi track
Audio frequency response	Normal: 100 Hz-10 kHz -6/+3 dB Hi-Fi: 20 Hz-20 kHz (-3/+3 dB)
Audio signal to noise ratio	Mono audio: More than 43 dB Hi-Fi audio: More than 75 dB (JIS A filter)
Audio dynamic range	Hi-Fi audio: More than 80 dB (JIS A filter)

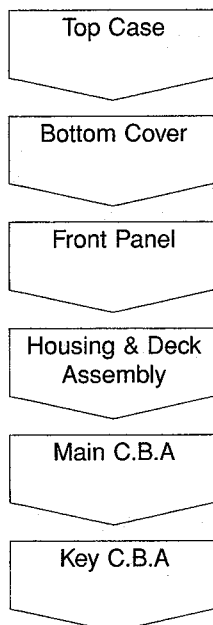
• Design and specifications are subject to change without notice!

OPTION PARTS : VS-J701/718EO-D, EO-DN ONLY

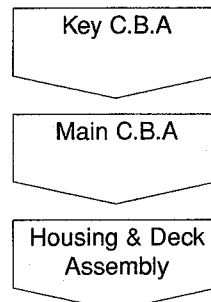
SECTION 2 CABINET & MAIN CHASSIS SERVICE METHOD

Electrical Part

(1) Disassembly Flow(2-2~2-3)



(2) Re-assembly Flow for service like Fig. 2-1



(3) To check and replace Electrical parts

- ① Disassemble the unit according to No.1) Disassembly Flow.
- ② Re-assemble the unit according to No.2) Re-assembly Flow.
- ③ Place the unit like Fig. 2-1
- ④ Check and replace Electrical parts.

NOTE :

- ① Insert Video Cassette Tape inversely like Fig. 2-1 to check and replace defective parts.
- ② In disassembling and reassembling, be careful not to damaged CST switch.

(Positioned Upside Down)

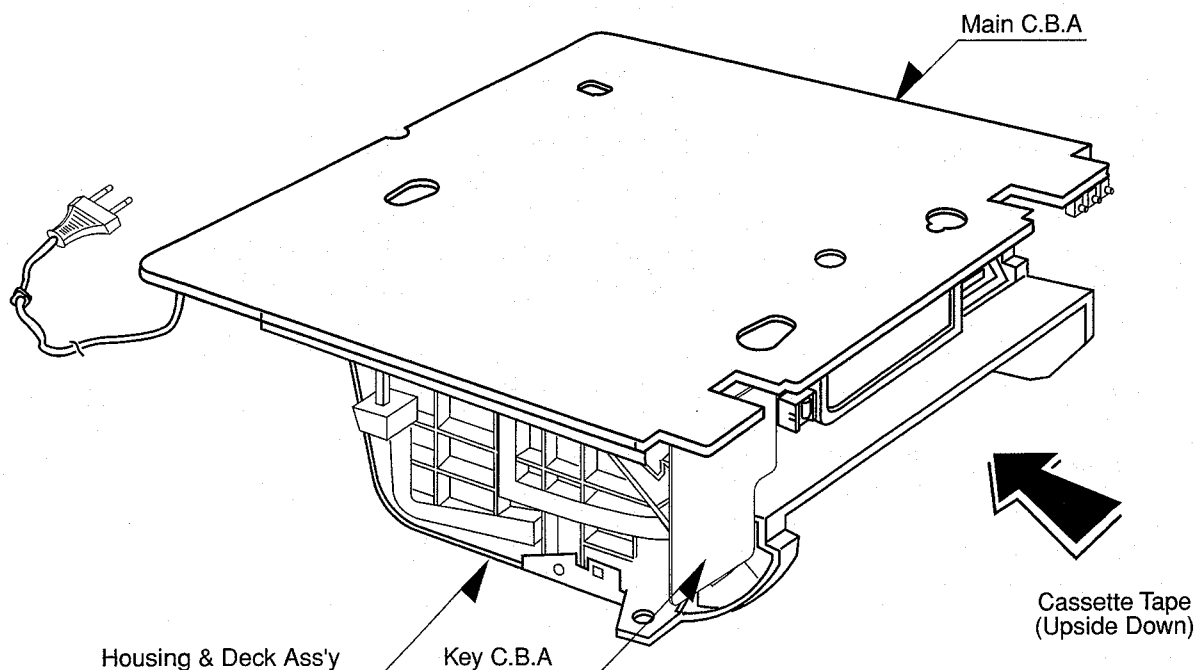
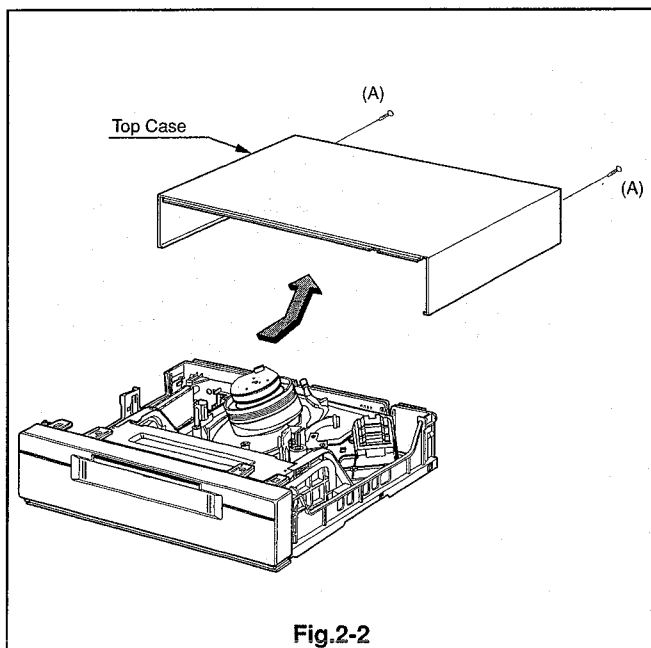


Fig.2-1

CABINET DISASSEMBLY

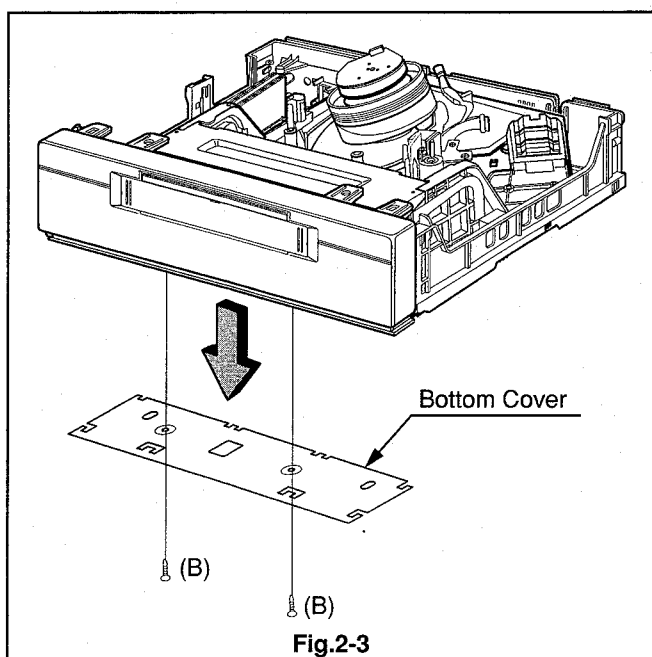
1. Top Case (Fig.2-2)

- (1) Remove 2 screws(A)
- (2) Lift the Top case while holding the back of it and remove it in the direction of the arrow.



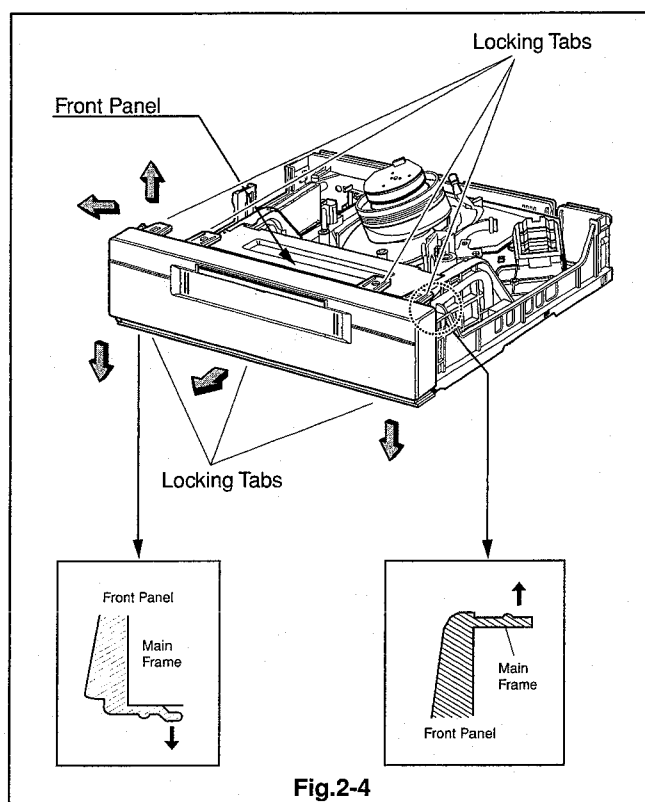
2. Bottom cover(Fig. 2-3)

- (1) Remove 2 screws(B)
- (2) Remove the Bottom Cover in the direction of the arrow.



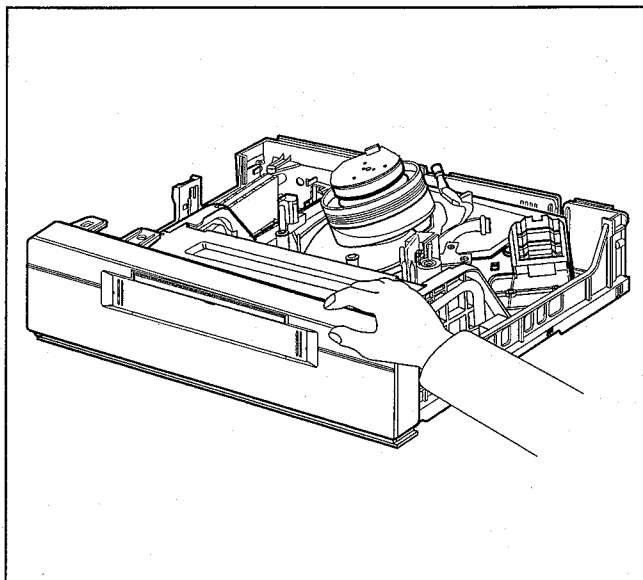
3. Front Panel (Fig. 2-4)

- (1) Release 7 Locking tabs of the Top, Bottom and Side of the Front Panel.
- (2) Remove the Front Panel in the direction of the arrows.



* Caution

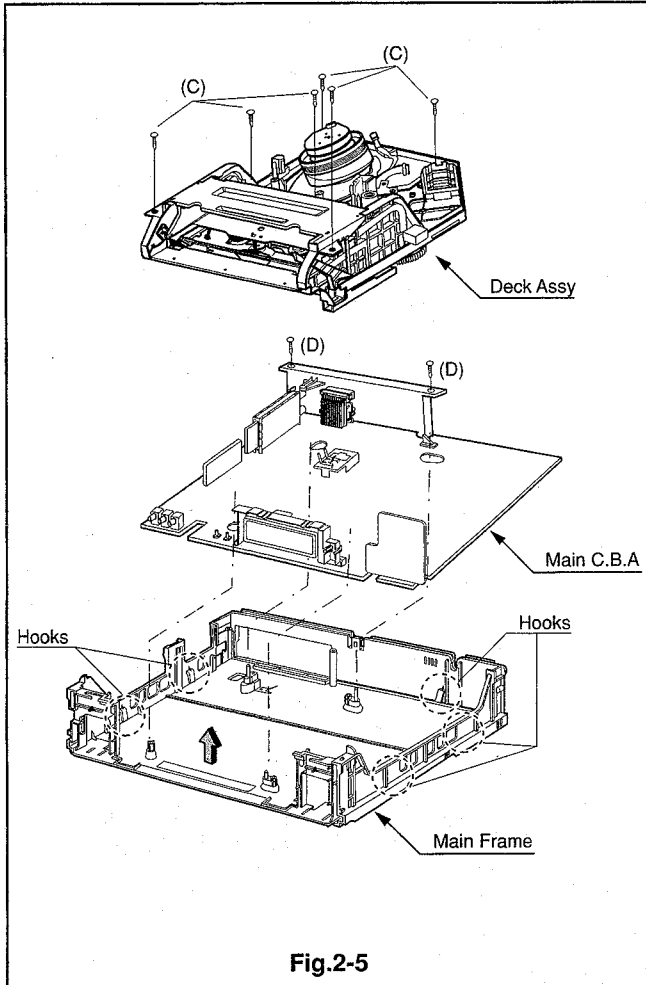
When reassembling the Front Panel, assemble it in direction of inserting the Cassette inside.



PRINTED CIRCUIT BOARD REMOVAL

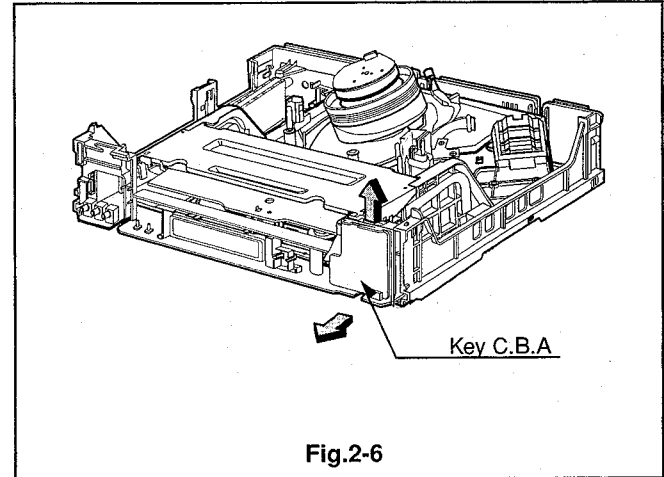
1. Main Circuit Board (Fig. 2-5)

- (1) Remove 6 screws (C) and disassemble the Deck Ass'y.
- (2) Remove 2 screws (D) and unlock 5 Hooks that are left and right of Main Frame.
- (3) Disassemble the Main C.B.A from the Main Frame.



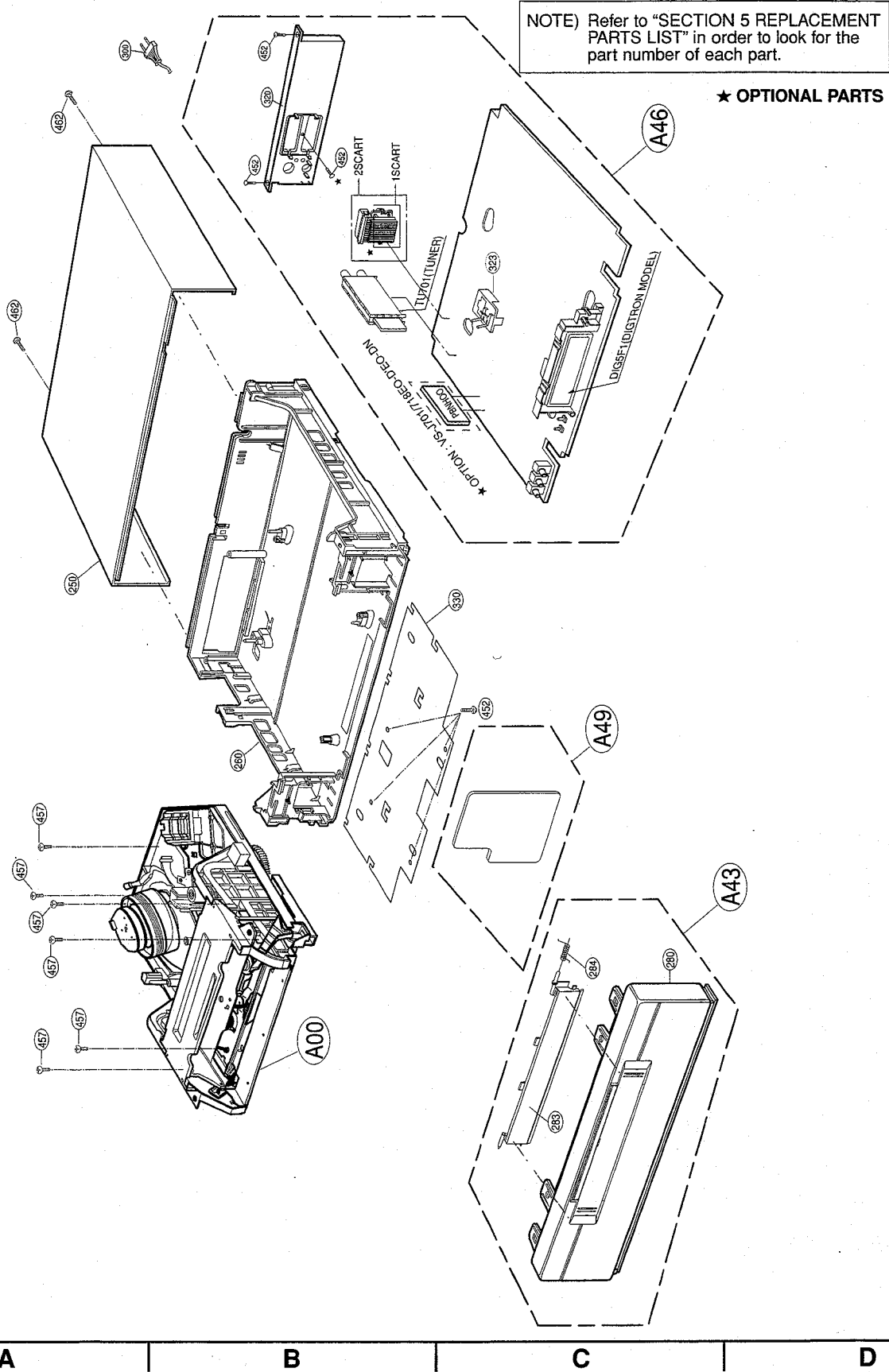
2. Key Circuit Board (Fig. 2-6)

- (1) Pull the Tabs in the direction of small arrows to disengage from main frame.
- (2) Then pull the key circuit board.



EXPLODED VIEWS

1. Cabinet and Main Frame Section



• Cabinet & Main Frame Section

RUN DATE : 99.06.19
NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
ASSEMBLY PARTS SECTION						
A43			3721R-F107G	PANEL ASSY.FRONT(NORMAL PARTS)	(VS-J418EO)	
A43			3721R-F107M	PANEL ASSY.FRONT(NORMAL PARTS)	(VS-J218EO) M/G	
A43			3721R-F107W	PANEL ASSY.FRONT(NORMAL PARTS)	(VS-J218EO) D/BK	
A43			3721R-F108C	PANEL ASSY.FRONT(NORMAL PARTS)	(VS-J200EO)	
A46			3501R-1237C	BOARD ASSY	MAIN (VS-J418EO)	
A46			3501R-1237G	BOARD ASSY	MAIN (VS-J200EO)	
A46			3501R-1237H	BOARD ASSY	MAIN (VS-J218EO)	
A49			6871R-1240A	PWB(PCB) ASSY	TIMER (VS-J200EO)	
A49			6871R-1241A	PWB(PCB) ASSY	TIMER (VS-J418EO/J218EO)	
PARTS SECTION						
250			3110R-0128K	CASE	TOP(VS-J418EO/J218EO/J200EO)M/G	
250			3210R-0023B	FRAME	MAIN (VI-PJT, 60HR)	NSP
275			4930R-0133A	HOLDER	DIGITRON(UP-MONO)	
280			3720R-F081B	PANEL	FRONT(VS-J200EO)	NSP
280			3720R-F081D	PANEL	FRONT(VS-J418EO/J218EO) M/G	NSP
280			3720R-F081G	PANEL	FRONT(VS-J218EO) D/BK	NSP
283			3580R-0038C	DOOR	CST(VS-J418EO)	
283			3580R-0038M	DOOR	CST(VS-J218EO)	
283			3580R-0043C	DOOR	CST(VS-J200EO)(E V Y2)	
284			442-681A	SPRING	DOOR	
300			6410RCHV02A	POWER CORD	H03VVH2-F2 X 0.75MM FILTER VOL	
320			3721R-D023F	PANEL ASSY.DISTRIBUTOR(NORMAL	AF-PAL MONO-2SCART-PREMERICA	
323			3111R-0089B	CASE ASSY	PRE-AMP (PBBB-SH)	
330			3550R-0210A	COVER	BOTTOM(LARGE)	
SCREW						
452			353-051A	SCREW	SPECIAL	
457			353-051E	SCREW	SPECIAL (3X12)	
462			353-136A	SCREW	SPECIAL (FBK) (353S353A)	

RUN DATE : 99.06.18
NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
ASSEMBLY PARTS SECTION						
A43			3721R-F108D	PANEL ASSY.FRONT(NORMAL PARTS)	VS-J701EO-D	
A43			3721R-F108E	PANEL ASSY.FRONT(NORMAL PARTS)	VS-J701EO-DN	
A49			6871R-1240A	PWB(PCB) ASSY	TIMER(AKA,IPNL)	
PARTS SECTION						
250			3110R-0128K	CASE	TOP(N911G:M/G)SIDE	
250			3210R-0023B	FRAME	MAIN (VI-PJT, 60HR)	NSP
275			4930R-0133A	HOLDER	DIGITRON(UP-MONO)	
280			3720R-F080B	PANEL	FRONT	NSP
283			3580R-0043D	DOOR	CST(VS-J701EO-D)	
283			3580R-0043E	DOOR	CST(VS-J701EO-DN)	
284			442-681A	SPRING	DOOR	
300			6410RCHV02A	POWER CORD	H03VVH2-F2 X 0.75MM FILTER VOL	
320			3721R-D023E	PANEL ASSY.DISTRIBUTOR(NORMAL	AF-PAL HI-FI-2SCART -PREMERE	
323			3111R-0089B	CASE ASSY	PRE-AMP (PBBB-SH)	
330			3550R-0210A	COVER	BOTTOM(LARGE)	
SCREW						
452			353-051A	SCREW	SPECIAL	
457			353-051E	SCREW	SPECIAL (3X12)	
462			353-136A	SCREW	SPECIAL (FBK) (353S353A)	

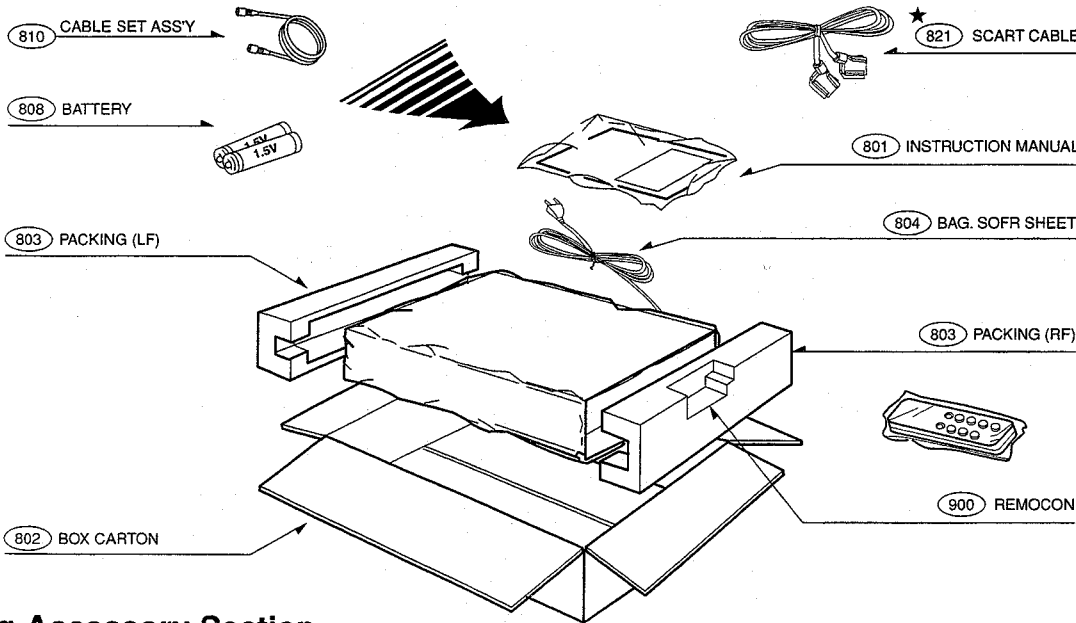
RUN DATE : 99.06.18
NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
ASSEMBLY PARTS SECTION						
A43			3721R-F107H	PANEL ASSY.FRONT(NORMAL PARTS)	(VS-J718EO-D) M/G	
A43			3721R-F107P	PANEL ASSY.FRONT(NORMAL PARTS)	(VS-J718EO-DN)	
A43			3721R-F107X	PANEL ASSY.FRONT(NORMAL PARTS)	(VS-J718EO-D) D/BK	
A49			6871R-1241A	PWB(PCB) ASSY	TIMER(AKA,IPNL)	
PARTS SECTION						
250			3110R-0128K	CASE	TOP(VS-J718EO-DN) M/G	
250			3110R-0128R	CASE	TOP(VS-J718EO-D) D/BK	NSP
250			3210R-0023B	FRAME	MAIN (VI-PJT, 60HR)	
275			4930R-0133A	HOLDER	DIGITRON(UP-MONO)	
280			3720R-F081A	PANEL	FRONT (VS-J718EO-DN)	NSP
280			3720R-F081H	PANEL	FRONT (VS-J718EO-D) D/BK	NSP
283			3580R-0038H	DOOR	CST(VS-J718EO-D)	
283			3580R-0038P	DOOR	CST(VS-J718EO-DN)	
284			442-681A	SPRING	DOOR	
300			6410RCHV02A	POWER CORD	H03VVH2-F2 X 0.75MM FILTER VOL	
320			3721R-D023E	PANEL ASSY.DISTRIBUTOR(NORMAL	AF-PAL HI-FI-2SCART-PREMERE	
323			3111R-0089B	CASE ASSY	PRE-AMP (PBBB-SH)	
330			3550R-0210A	COVER	BOTTOM(LARGE)	
SCREW						
452			353-051A	SCREW	SPECIAL	
457			353-051E	SCREW	SPECIAL (3X12)	
462			353-136A	SCREW	SPECIAL (FBK) (353S353A)	

2.Packing Accessory Section

NOTE) Refer to "SECTION REPLACEMENT PARTS LIST" in order to look for the part number of each part.

★ OPTIONAL PARTS



• Packing Accessory Section

RUN DATE : 99.06.19
NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		801	3835RP0037T	INSTRUCTION ASSY	(VS-J218EO) :FINLAND	
		801	3835RP0037U	INSTRUCTION ASSY	(VS-J418EO) :GERMANY	
		801	3835RP0037V	INSTRUCTION ASSY	(VS-J418EO) :SPAIN	
		801	3835RP0037W	INSTRUCTION ASSY	(VS-J200EO) :FINLAND	
		801	3835RP0037X	INSTRUCTION ASSY	(VS-J200EO) :GERMANY	
		801	3835RP0037Y	INSTRUCTION ASSY	(VS-J200EO) :SPAIN	
		802	3890R-H399A	BOX	(VS-J218EO) :SW	
		802	3890R-H401A	BOX	(VS-J218EO) :FL	
		802	3890R-H401B	BOX	(VS-J218EO) :FL	
		802	3890R-H402A	BOX	(VS-J418EO)	
		803	3920R-0075A	PACKING	AK2191 0.02 1 EPS 1 1 1	
		804	292-053A	BAG	SOFT(VCP)	NSP
		804	3858R-0006A	SHEET	ROLL(W630X1300MX0.5T)	NSP
		808	534-002C	BATTERY	1.5V AAM UM-3 LOL 1PAIR	
		810	861-505B	CABLE SET ASSY	RF-CABLE ASSY.PAL	

RUN DATE : 99.06.18
NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		801	3835RP0037Z	INSTRUCTION ASSY	(VS-J701EO-DN) :FINLAND	
		801	3835RP0042A	INSTRUCTION ASSY	(VS-J701EO-DN) :NETHERLAND	
		801	3835RP0042B	INSTRUCTION ASSY	(VS-J701EO-D) :GERMANY	
		801	3835RP0042C	INSTRUCTION ASSY	(VS-J701EO-DN) :PORTUGAL	
		802	3890R-H393A	BOX	(VS-J701EO-DN) :FINLAND	
		802	3890R-H394A	BOX	(VS-J701EO-DN) :NETHERPORTUGA	
		802	3890R-H403A	BOX	(VS-J701EO-D) :GERMANY	
		803	3920R-0075A	PACKING	AK2191 0.02 1 EPS 1 1 1	
		804	292-053A	BAG	SOFT(VCP)	NSP
		804	3858R-0006A	SHEET	ROLL(W630X1300MX0.5T)	NSP
		808	534-002C	BATTERY	1.5V AAM UM-3 LOL 1PAIR	
		810	861-505J	CABLE SET ASSY	RF-CABLE ASSY.PAL FTZ	

RUN DATE : 99.06.18
NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		801	3835RP0037O	INSTRUCTION ASSY	(VS-J718EO-D) :GERMANY	
		801	3835RP0037R	INSTRUCTION ASSY	(VS-J718EO-DN) :FINLAND	
		801	3835RP0037S	INSTRUCTION ASSY	(VS-J718EO-DN) :NETHERLAND	
		802	3890R-H392A	BOX	(VS-J718EO-DN) :FINLA/NETHERLAND	
		802	3890R-H400A	BOX	(VS-J718EO-D N) :GERMANY	
		802	3890R-H400B	BOX	(VS-J718EO-D N) :GERMANY	
		803	3920R-0075A	PACKING	AK2191 0.02 1 EPS 1 1 1	
		804	292-053A	BAG	SOFT(VCP)	NSP
		804	3858R-0006A	SHEET	ROLL(W630X1300MX0.5T)	NSP
		808	534-002C	BATTERY	1.5V AAM UM-3 LOL 1PAIR	
		810	861-505J	CABLE SET ASSY	RF-CABLE ASSY.PAL FTZ	

RUN DATE : 99.06.18
NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		900	6711R2P016D	REMOTE CONTROLLER ASSY	(VS-J418EOJ218EO)	
		900	6711R2P016G	REMOTE CONTROLLER ASSY	(VS-J200EO)	

RUN DATE : 99.06.18
NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		900	6711R2P017A	REMOTE CONTROLLER ASSY	(A1:RC-Y171E RC-Z122E)	

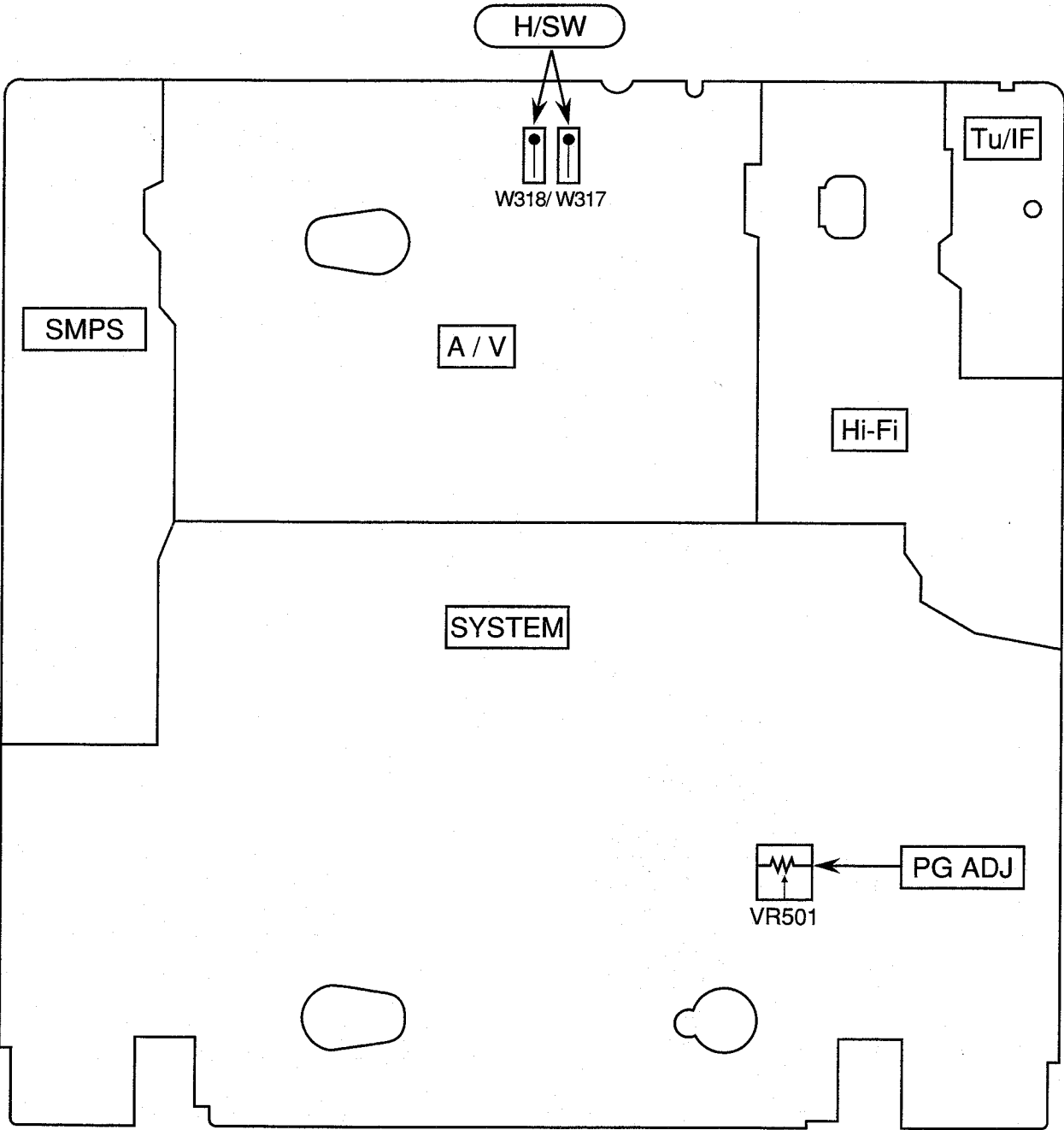
• Remote Control Section

RUN DATE : 99.06.19
NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		900	6711R2P016D	REMOTE CONTROLLER ASSY	(VS-J418EOJ218EO)	
		900	6711R2P016G	REMOTE CONTROLLER ASSY	(VS-J200EO)	

SECTION 3 ELECTRICAL
ELECTRICAL ADJUSTMENT POINTS ARRANGEMENT

○ : Measurement point
□ : Adjustment point



MAIN P.C.B

(Component Side)

ELECTRICAL ADJUSTMENT PROCEDURES

1. Servo Adjustment

- 1) PG Adjustment
 - Test Equipment

- a) OSCILLOSCOPE
- b) PAL TEST TAPE (VHS SP)

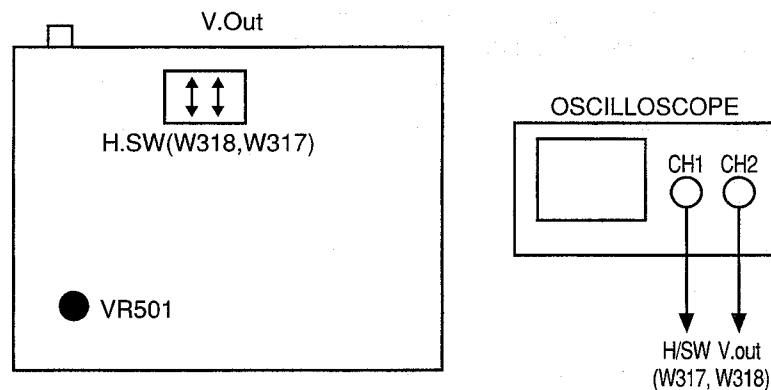
- Adjustment And Specification

MODE	MEASUREMENT POINT	ADJUSTMENT POINT	SPECIFICATION
PLAY	V.Out H/SW(W317, W318)	VR501	$6.5 \pm 0.5H$

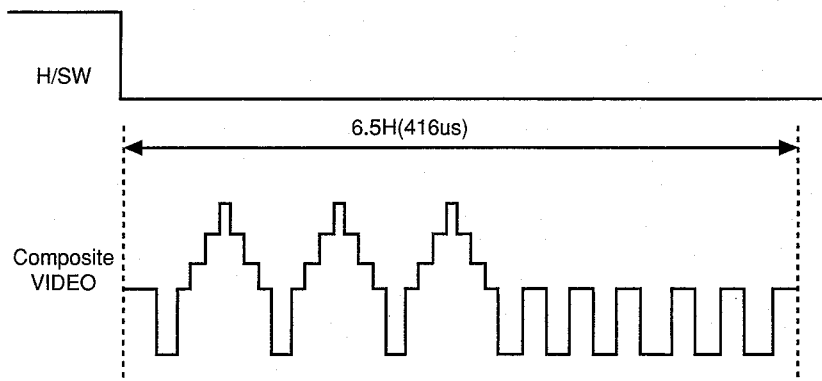
• Adjustment Procedure

- a) Insert the PAL SP Test Tape and play.
Note - Adjust the distance of X, pressing the Tracking(+) or Tracking(-) when the "ATR" is blink after the PAL SP Test Tape is inserted.
- b) Connect the CH1 of the oscilloscope to the H/SW(W317, 318) and CH2 to the Video Out for the VCR.
- c) Trigger the mixed Video Signal of CH2 to the CH1 H.SW(W317, W318), and then check the distance (time difference), which is from the selected A(B) Head point of the H.SW(W317, W318) signal to the starting point of the vertical synchronized signal, to $6.5H \pm 0.5H$ ($412\mu s$, $1H=63.5\mu s$).

• CONNECTION



• WAVEFORM



2. Initial adjustment standards

1. I-HQ INITIAL ADJUSTMENT

- Measuring instruments

- a) REMOCON
- b) NORMAL REC TEST TAPE (TF-556 (AF-751822J))

• CONDITION

MODE	VIDEO SIGNAL	REC TIME	CHECK
REC/PB	COLOR BAR	SP : MORE THAN 10 SEC LP : MORE THAN 10 SEC	CHECK "I-HQ OK" on DIGITRON after putting JIG KEY IN when Playing on each mode after Recording.

• HOW TO ADJUST

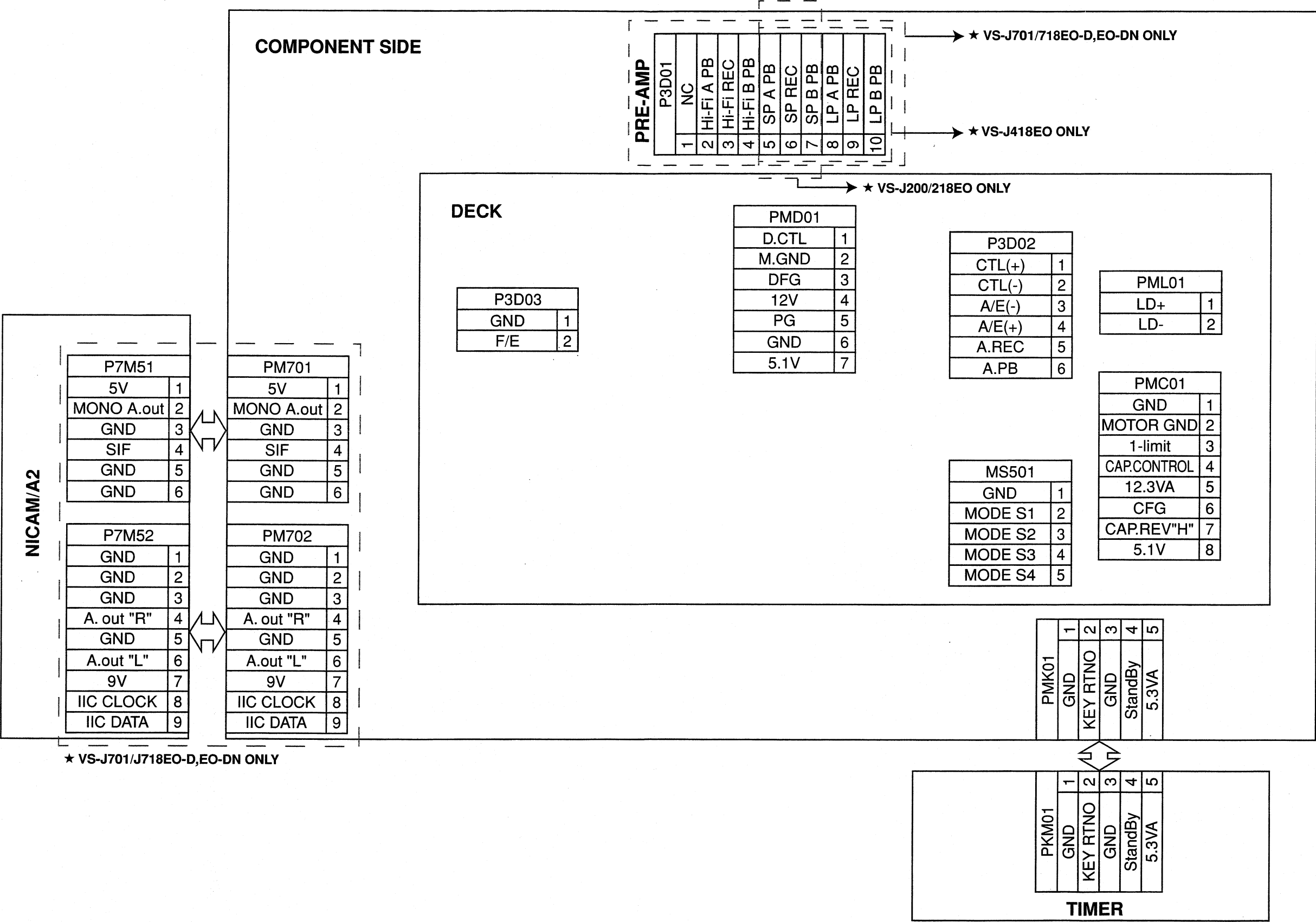
- a) Please Reset the μ -COM(W5H5, W504)
- b) Record in Normal REC Tape on each SP/LP mode for 10 sec.
- c) Put two keys at the same time (Play+CH UP key of VCR set) in While screen is playing on SP mode after rewinding (In this case check "I-HQ SP" on DIGITRON)
- d) Put two keys at the same time (Play+CH UP key of VCR set) in while normal screen is playing on LP mode. (In this case check "I-HQ OK" on DIGITRON)

• CAUTION

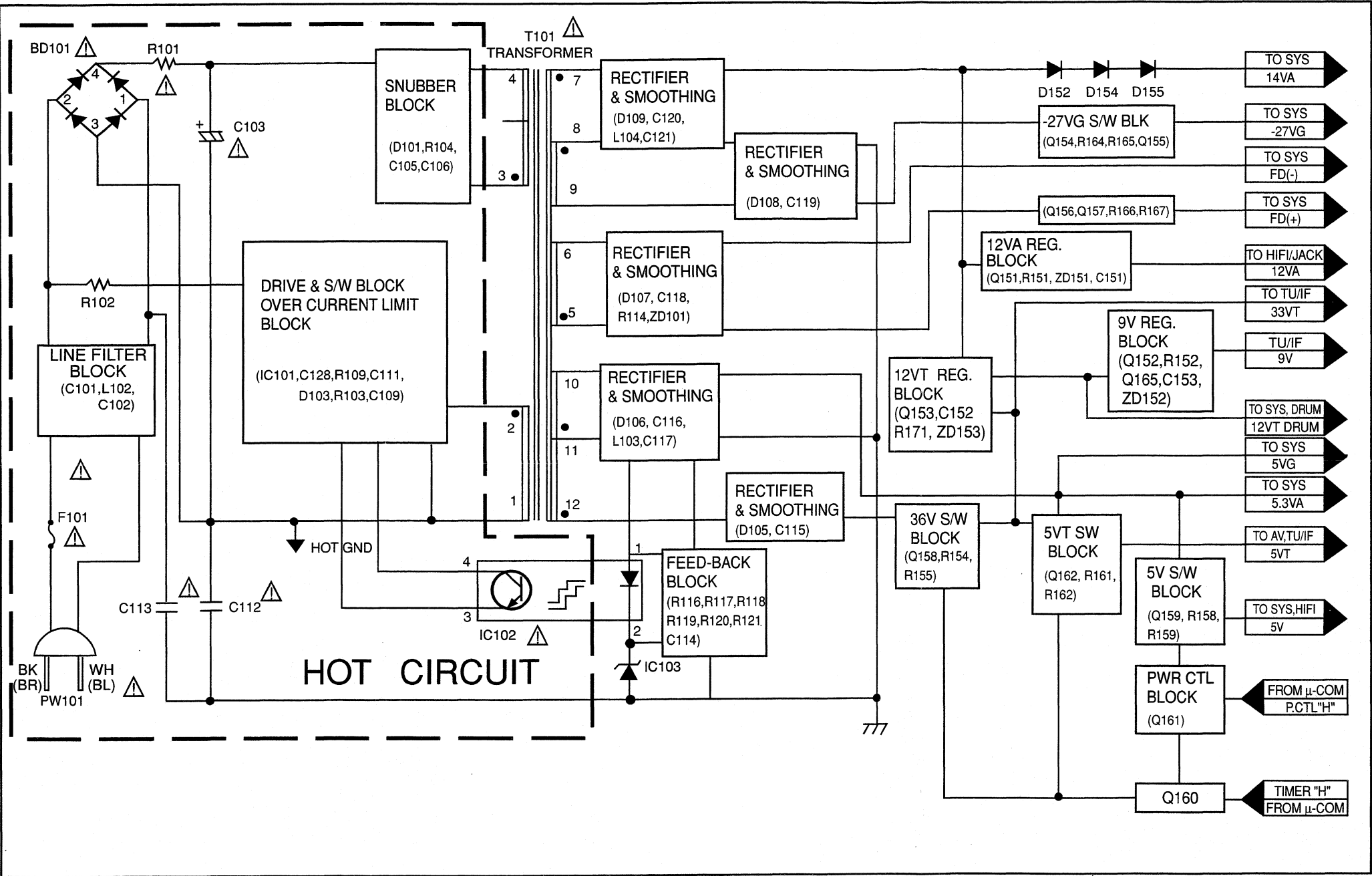
- a) I-HQ doesn't work normally if you don't use I-HQ Normal Tape(TF-556(AF-751822J)).
- b) I-HQ doesn't work if the recording part finished with I-HQ JIG KEY in.

BLOCK & CIRCUIT DIAGRAMS

1. Overall Wiring Diagram



2. Power Block Diagram



'99 06. 15 R10419BA

NOTES :  Symbol denotes AC ground.
 Symbol denotes DC chassis ground.

* IC101 Voltage Sheet

	PB		REC	
	PB	REC	PB	REC
1	16.1	4.0	16.3	4.6
5	309	0.0	309	0.0

* IC102 Voltage Sheet

	PB		REC	
	PB	REC	PB	REC
1	4.0	0.0	4.0	0.0
4	4.9	3.9	4.9	4.0

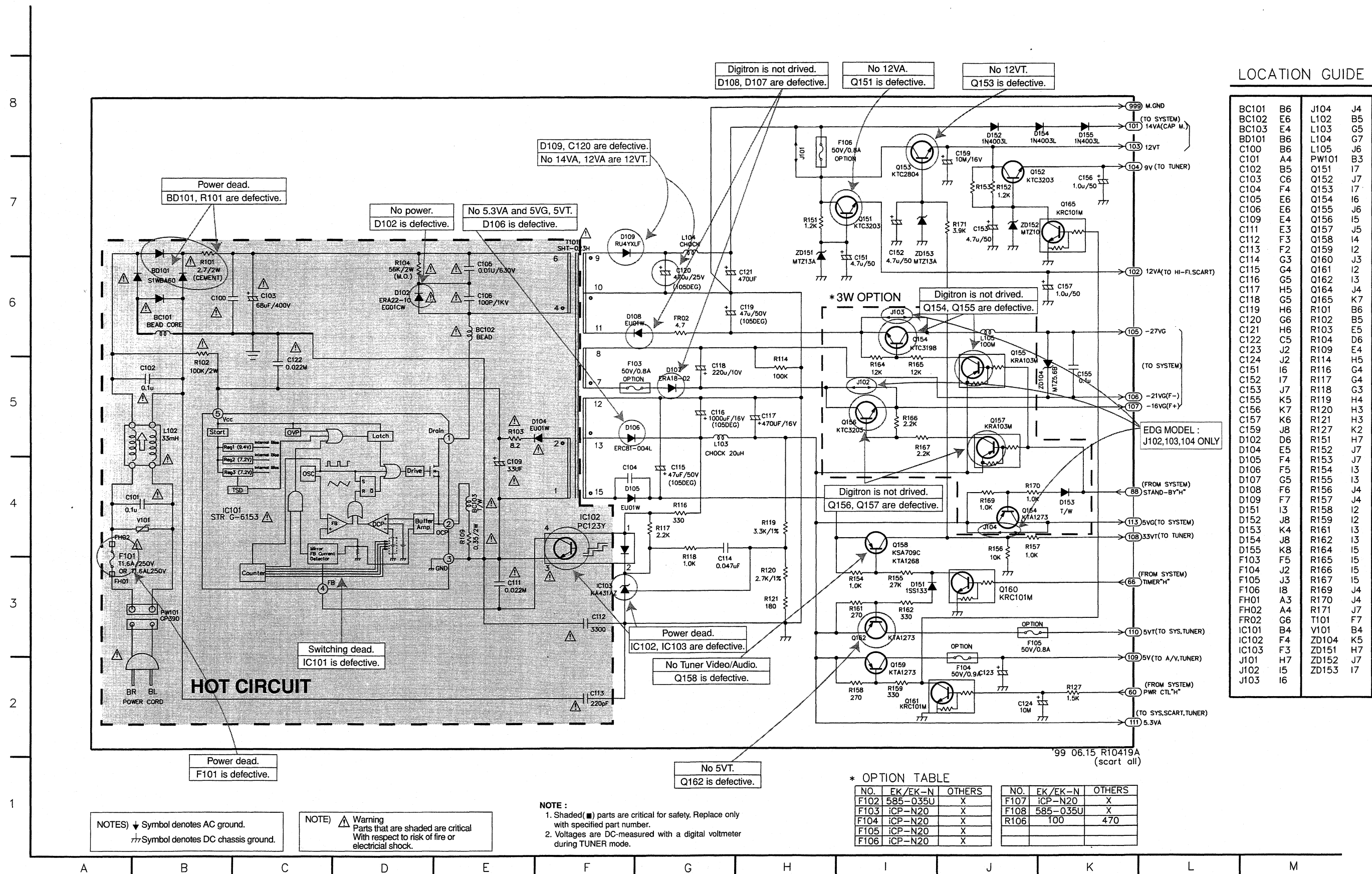
* IC103 Voltage Sheet

	Emitter		Collector		Base	
	PB	REC	PB	REC	PB	REC
IC103	2.5	2.5	0.0	0.0	3.9	3.9

★ TR Voltage Sheet

	Emitter		Collector		Base	
	PB	REC	PB	REC	PB	REC
Q151	11.9	11.8	14.8	15.0	12.5	12.4
Q152	9.4	9.3	11.8	11.6	10.0	9.9
Q153	11.8	11.7	14.8	15.0	12.4	12.3
Q154	-27.3	-27.9	-27.3	-27.8	-26.6	-27.0
Q155	5.3	5.3	5.2	5.3	0.0	0.0
Q156	-16.1	-16.5	-16.0	-16.4	-15.4	-15.7
Q157	5.3	5.3	5.2	5.2	0.0	0.0
Q158	35.6	36.0	35.3	35.7	35.0	35.4
Q159	5.3	5.3	5.2	5.2	4.5	4.5
Q160	0.0	0.0	0.0	0.0	5.0	5.0
Q161	0.0	0.0	0.1	0.0	5.0	5.0
Q162	5.3	5.3	5.2	5.2	4.5	4.5
Q164	5.3	5.3	5.3	5.3	4.6	4.6
Q165	0.0	0.0	10.0	10.0	0.0	0.0

2. Power Circuit Diagram



LOCATION GUIDE

BC101	B6	J104	J4
BC102	E6	L102	B5
BC103	E4	L103	G5
BD101	B6	L104	G7
C100	B6	L105	J6
C101	A4	PW101	B3
C102	B5	Q151	I7
C103	C6	Q152	J7
C104	F4	Q153	I7
C105	E6	Q154	I6
C106	E6	Q155	J6
C109	E4	Q156	I5
C111	E3	Q157	J5
C112	F3	Q158	I4
C113	F2	Q159	I2
C114	G3	Q160	J3
C115	G4	Q161	I2
C116	G5	Q162	I3
C117	H5	Q164	J4
C118	G5	Q165	K7
C119	H6	R101	B6
C120	G6	R102	B5
C121	H6	R103	E5
C122	C5	R104	D6
C123	J2	R109	E4
C124	J2	R114	H5
C151	I6	R116	G4
C152	I7	R117	G4
C153	J7	R118	G3
C155	K5	R119	H4
C156	K7	R120	H3
C157	K6	R121	H3
C159	J8	R127	K2
D102	D6	R151	H7
D104	E5	R152	J7
D105	F4	R153	J7
D106	F5	R154	I3
D107	C5	R155	I3
D108	F6	R156	J4
D109	F7	R157	J4
D151	I3	R158	I2
D152	J8	R159	I2
D153	K4	R161	I3
D154	J8	R162	I3
D155	K8	R164	I5
F103	F5	R165	I5
F104	J2	R166	I5
F105	J3	R167	I5
F106	I8	R169	J4
FH01	A3	R170	J4
FH02	A4	R171	J7
FR02	G6	T101	F7
IC101	B4	V101	B4
IC102	F4	ZD104	K5
IC103	F3	ZD151	H7
J101	H7	ZD152	J7
J102	I5	ZD153	I7
J103	I6		

* OPTION TABLE

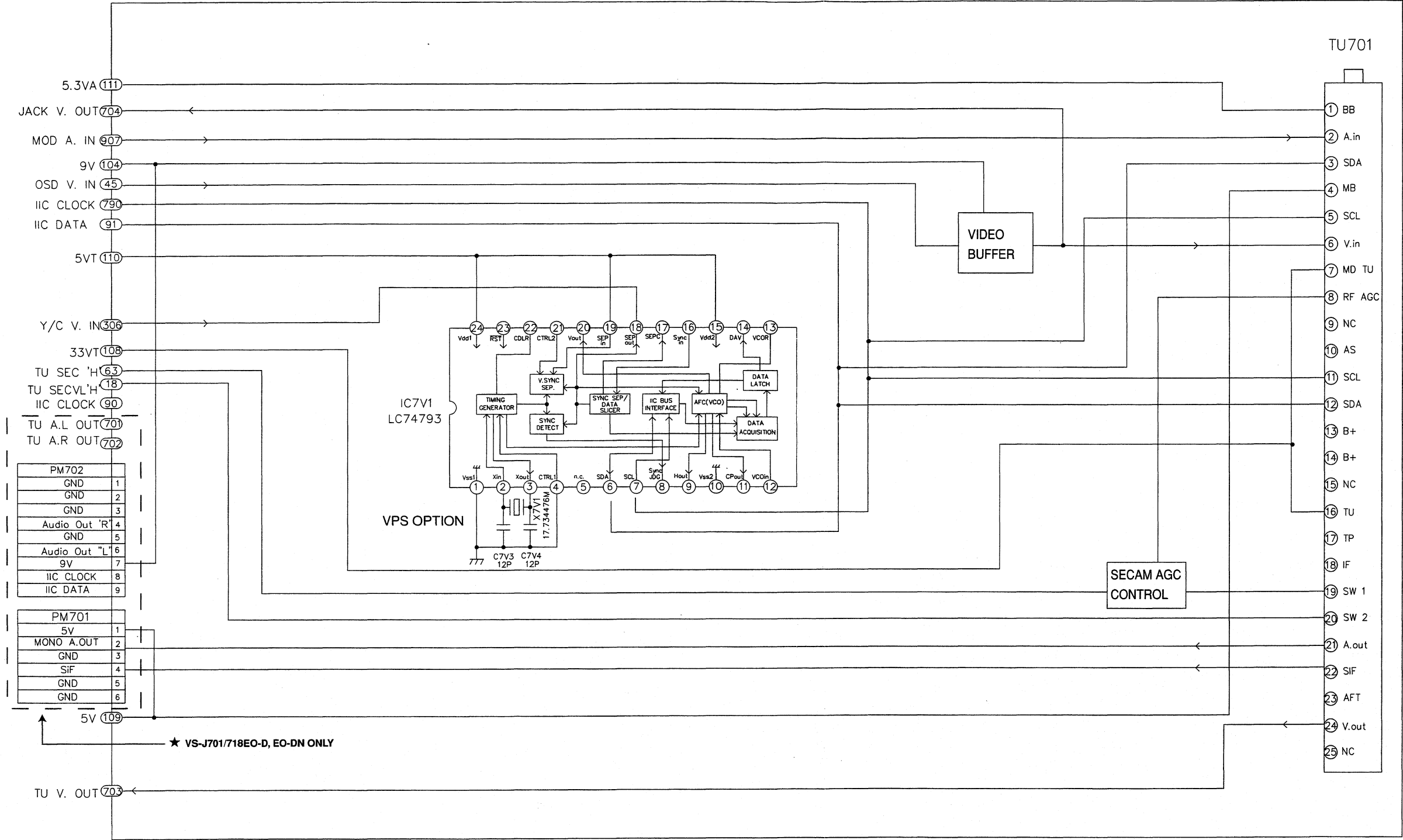
NO.	EK/EK-N	OTHERS	NO.	EK/EK-N	OTHERS
F102	585-035U	X	F107	ICP-N20	X
F103	ICP-N20	X	F108	585-035U	X
F104	ICP-N20	X	R106	100	470
F105	ICP-N20	X			
F106	ICP-N20	X			

NOTE :
1. Shaded (■) parts are critical for safety. Replace only with specified part number.
2. Voltages are DC-measured with a digital voltmeter during TUNER mode.

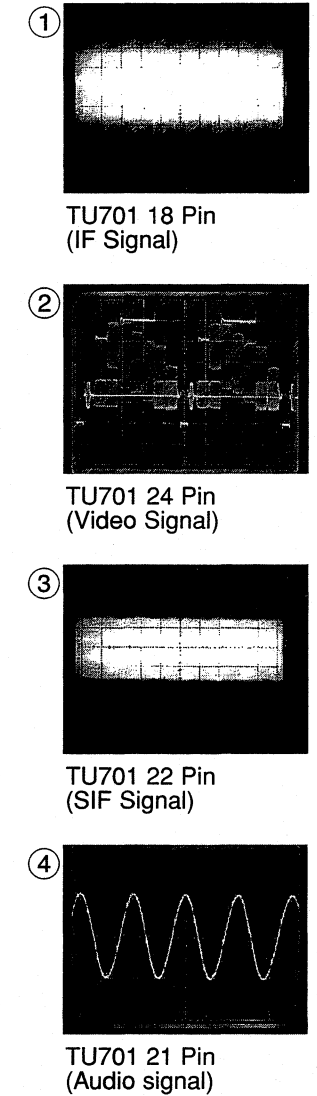
NOTES) ↓ Symbol denotes AC ground.
↑ Symbol denotes DC chassis ground.

NOTE) ⚠ Warning
Parts that are shaded are critical
With respect to risk of fire or
electrical shock.

3. Tu/IF Block Diagram



* TU/IF Oscilloscope Waveform



* TU701 Voltage Sheet

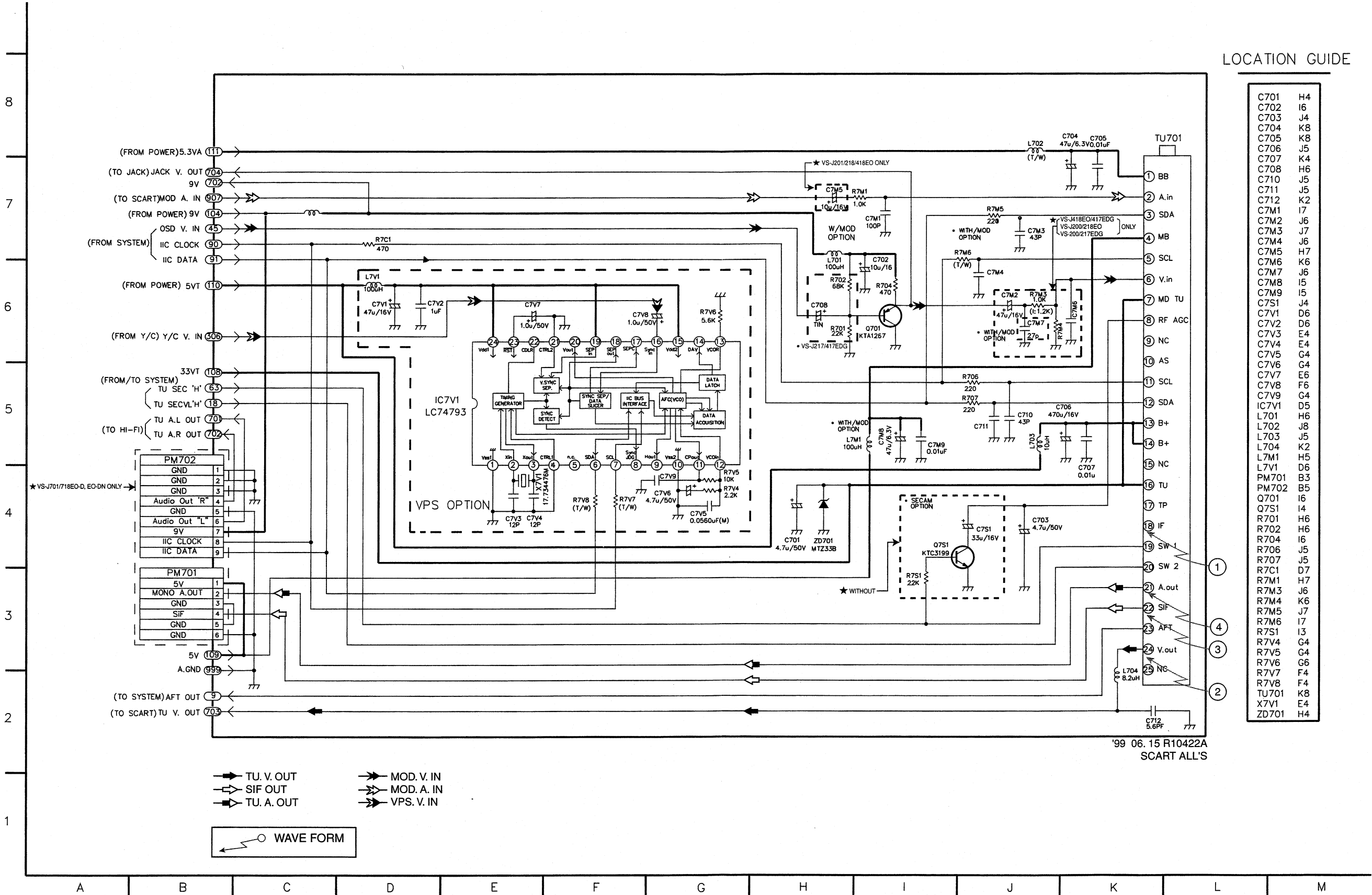
1	BB	5.25	13	B+	4.985
2	A.iN	0.002	14	B+	4.985
3	SEA	5.1	15	NC	0
4	MB	5.19	16	TU	32.29
5	SCL	5.2	17	TP	0
6	V.iN	0	18	IF	0
7	MD TU	32.27	19	SW1	5.0541
8	KF AGC	2.55	20	SW2	0
9	NC	0	21	A.OUT	2.38
10	AS	0.048	22	SIF	0
11	SCL	5.1	23	AFT	2.463
12	SEA	5.2	24	V.OUT	1.337
			25	NC	0

* IC7V1 Voltage Sheet

5.022	4.997	4.497	0.002	4.969	5.032	4.602	2.53	12.933	5.032	0.159	1.276
20											
IC7V1(LC74793)											
5											
0.003	2.553	2.627	0.002	0.001	5.2	5.2	5.012	4.649	0.003	2.993	2.992

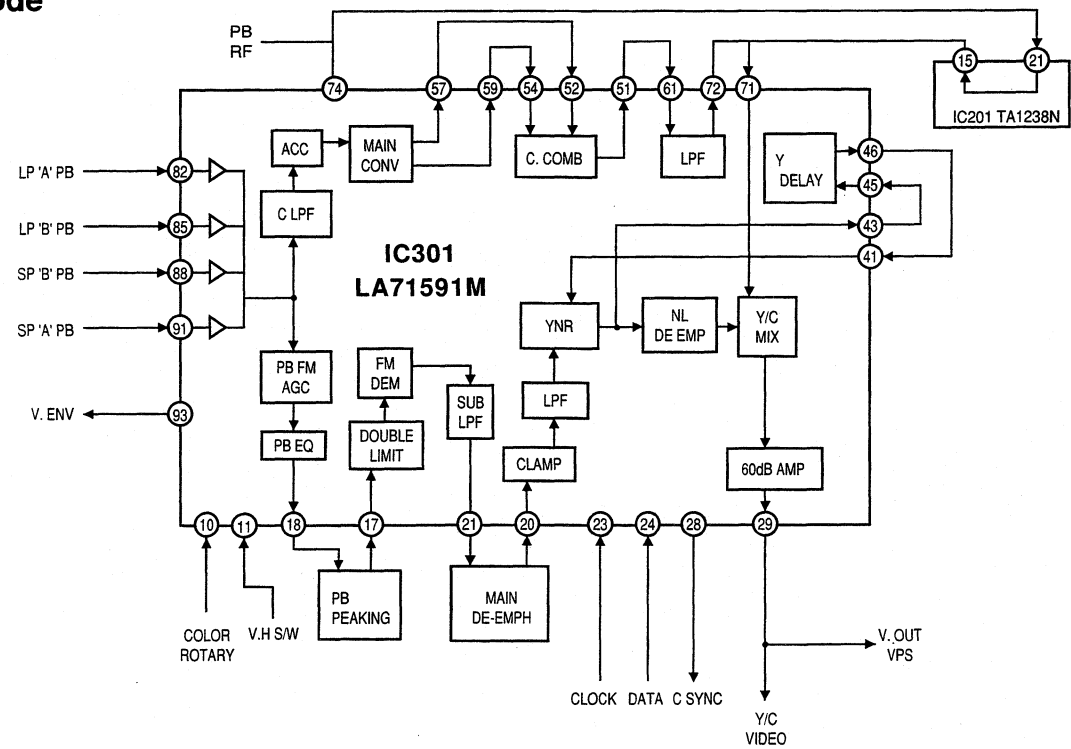
3. Tu/IF Circuit Diagram

LOCATION GUIDE

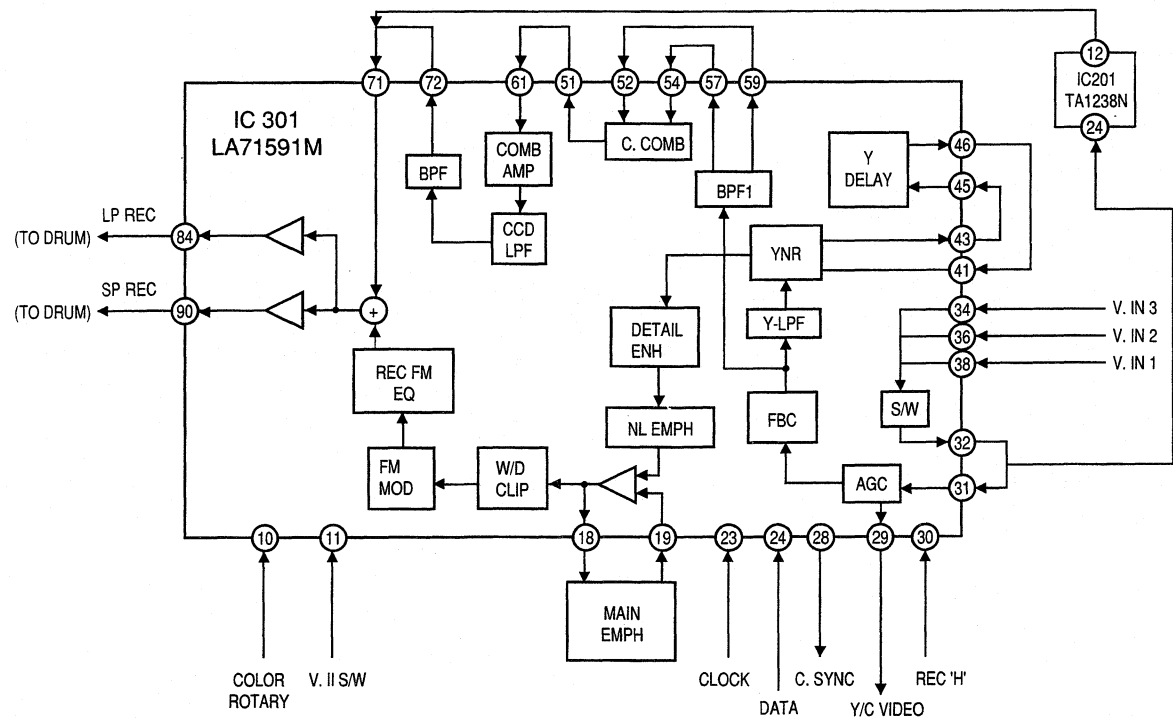


4. Y/C Block Diagram

1) PB Mode

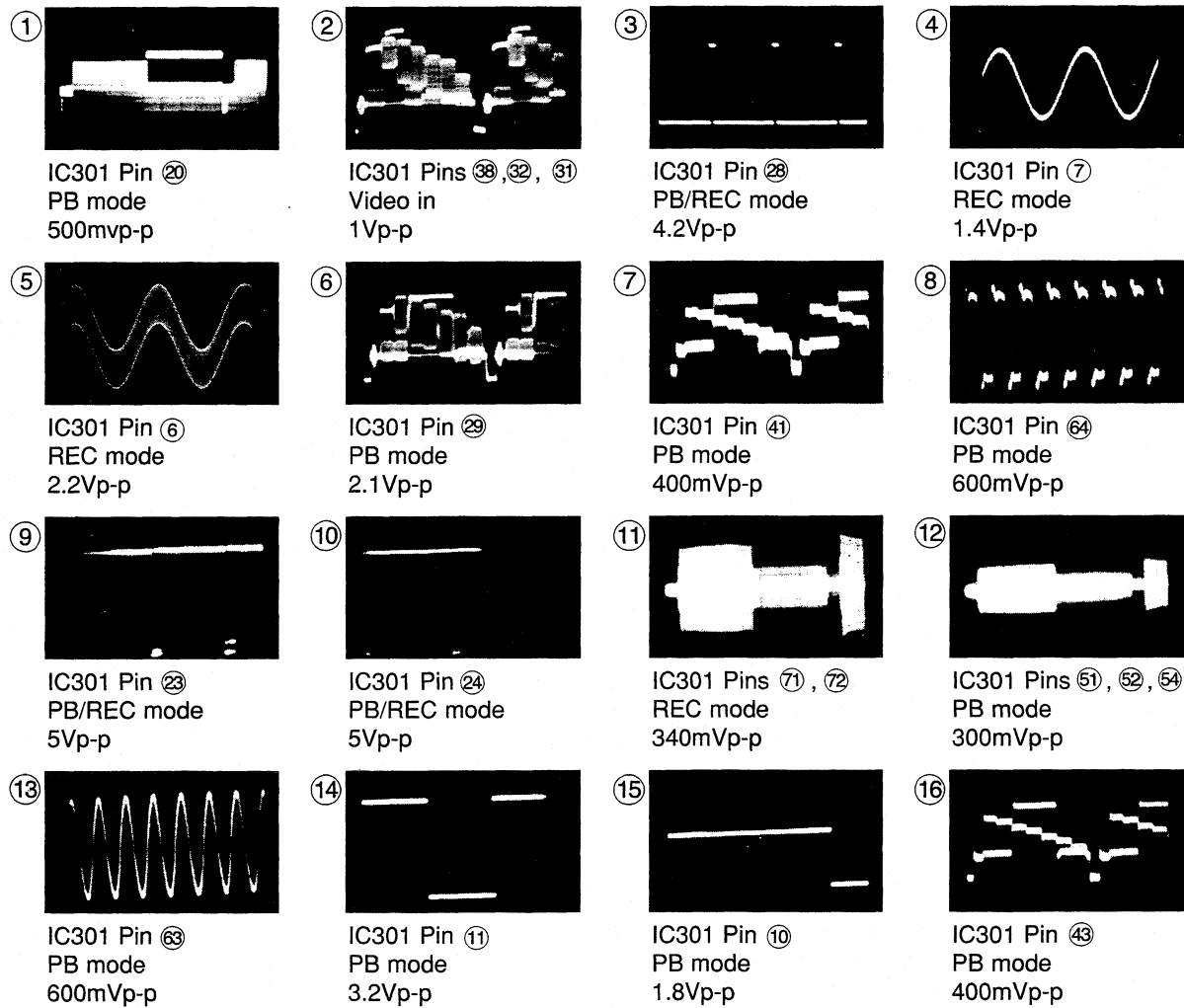


2) REC Mode



WAVEFORM & VOLTAGE SHEET

★ IC301 Oscilloscope Waveform



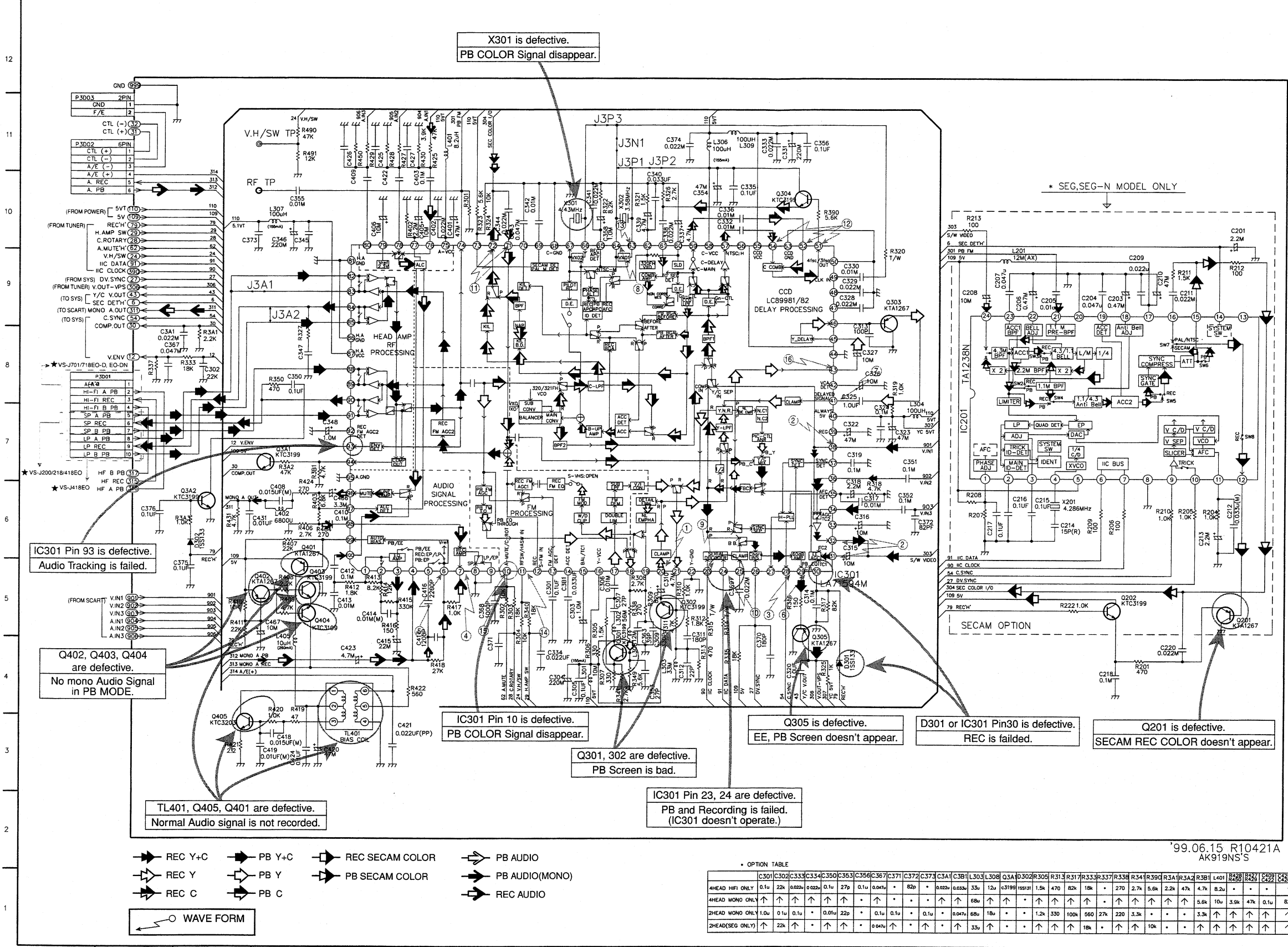
★ IC301 Voltage Sheet

PIN	PB	REC	PIN	PB	REC	PIN	PB	REC	PIN	PB	REC	PIN	PB	REC
1	2.44	2.41	21	2.15	2.54	41	3.02	2.9	61	3.36	3.43	81	0.0	0.0
2	2.44	2.41	22	0.0	0.0	42	2.79	3.1	62	3.47	3.45	82	0.01	0.01
3	2.47	2.52	23	4.85	4.85	43	1.96	2.11	63	5.0V	5.0V	83	0.01	0.01
4	2.45	2.39	24	4.85	4.85	44	0.17	0.17	64	5.0V	5.0V	84	0.76	0.69
5	0.05	2.4	25	0.0	0.0	45	1.53	2.26	65	2.06	1.35	85	0.76	0.69
6	2.47	2.42	26	0.07	0.07	46	1.84	1.5	66	2.63	2.75	86	0.0	0.0
7	2.47	2.42	27	0.34	0.34	47	9.59	9.53	67	3.9	3.72	87	4.97	4.99
8	0.0	0.0	28	0.34	0.34	48	2.21	2.33	68	0.0	0.0	88	1.89	4.84
9	0.0	0.0	29	1.73	1.94	49	0.88	0.89	69	0.63	0.6	89	0.0	0.0
10	0.97	0.97	30	1.09	4.35	50	0.0	0.0	70	1.98	2.83	90	1.89	0.0
11	1.7	1.7	31	2.88	2.88	51	1.94	1.9	71	2.5	2.43	91	1.89	4.84
12	5.05	2.69	32	1.5	2.27	52	2.59	2.59	72	3.26	3.02	92	0.21	0.23
13	1.5	1.42	33	1.87	1.31	53	0.0	0.0	73	3.4	3.36	93	4.23	0.02
14	1.9	1.53	34	1.82	3.31	54	2.62	2.58	74	1.8	0.01	94	0.01	0.25
15	2.3	2.31	35	1.26	3.36	55	5.07	5.01	75	4.99	4.95	95	0.0	0.0
16	5.07	5.02	36	1.82	3.31	56	0.22	0.53	76	2.44	2.44	96	2.26	2.26
17	3.03	0.17	37	1.61	4.73	57	3.38	3.43	77	0.01	0.01	97	0.0	0.0
18	1.87	2.47	38	2.14	2.24	58	5.01	4.98	78	2.44	2.44	98	2.44	1.62
19	1.12	2.47	39	4.05	4.06	59	3.3	3.36	79	2.47	2.44	99	4.97	4.11
20	2.98	3.04	40	5.08	5.02	60	3.46	3.43	80	2.38	1.92	100	2.44	3.26

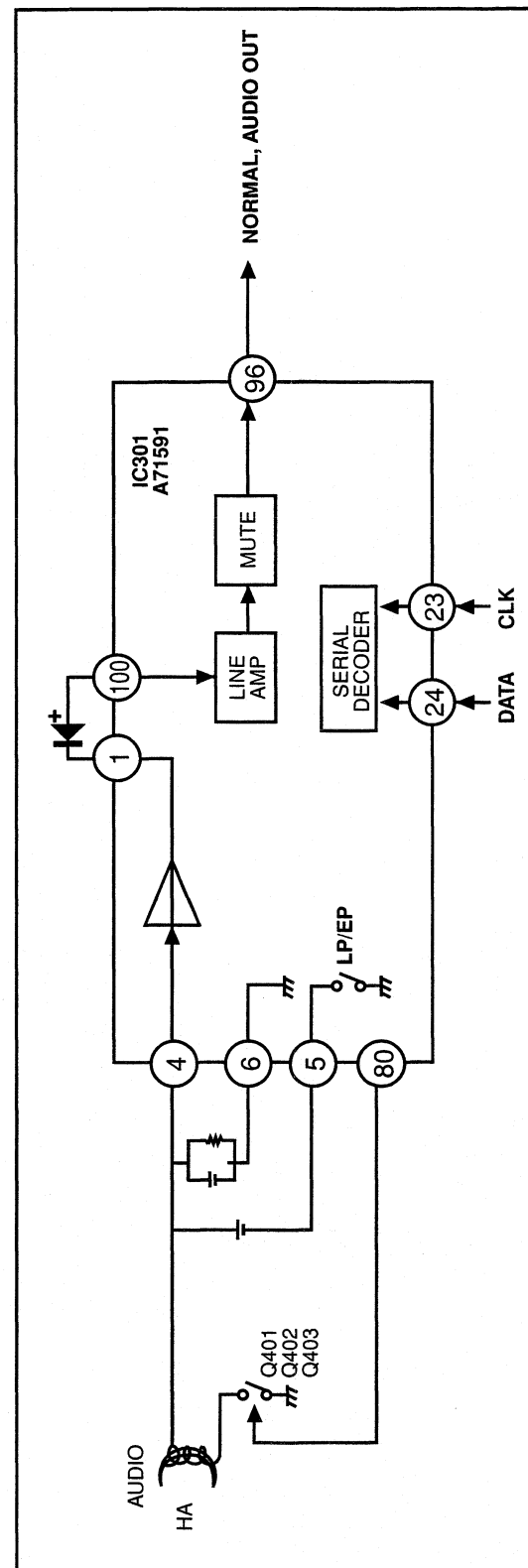
★ TR Voltage Sheet

	PB mode			REC mode		
	E	C	B	E	C	B
Q301	1.18	4.32	1.8	1.71	3.75	2.34
Q302	1.3	5.09	1.9	1.89	5.09	2.51
Q303	2.62	0.0	2.05	2.17	0.0	1.53
Q304	1.36	5.08	1.93	1.34	5.02	1.9
Q305	2.43	0.0	1.75	2.53	0.0	0.55

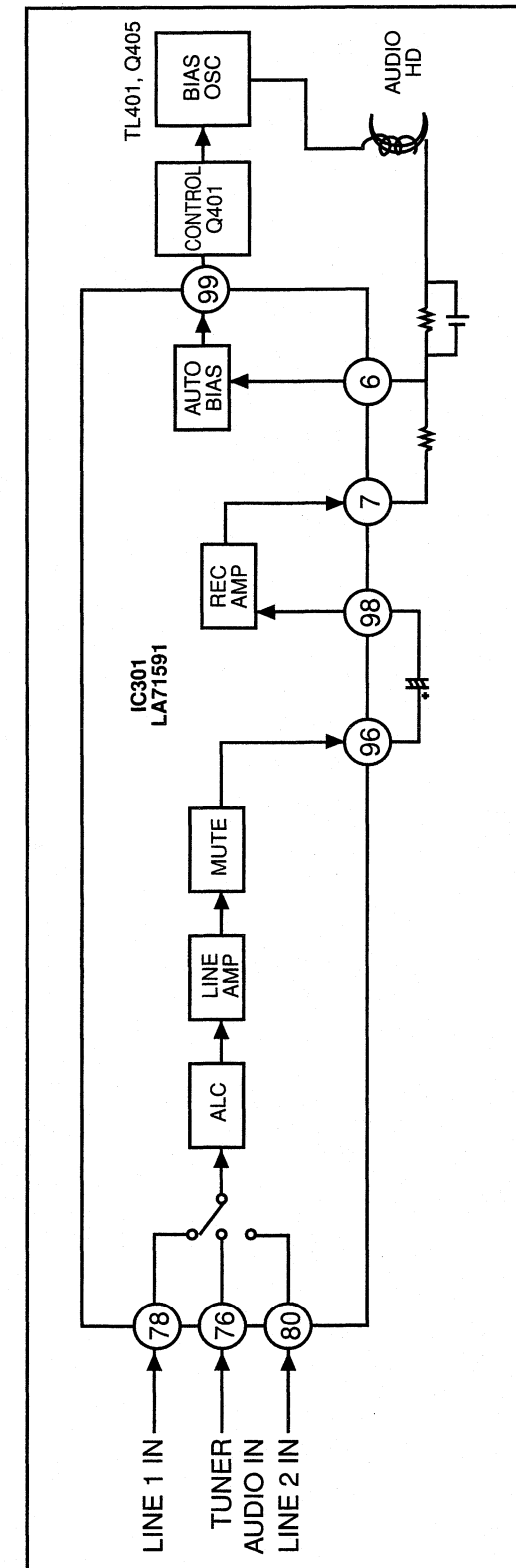
4. A/V Circuit Diagram



1) PB Mode



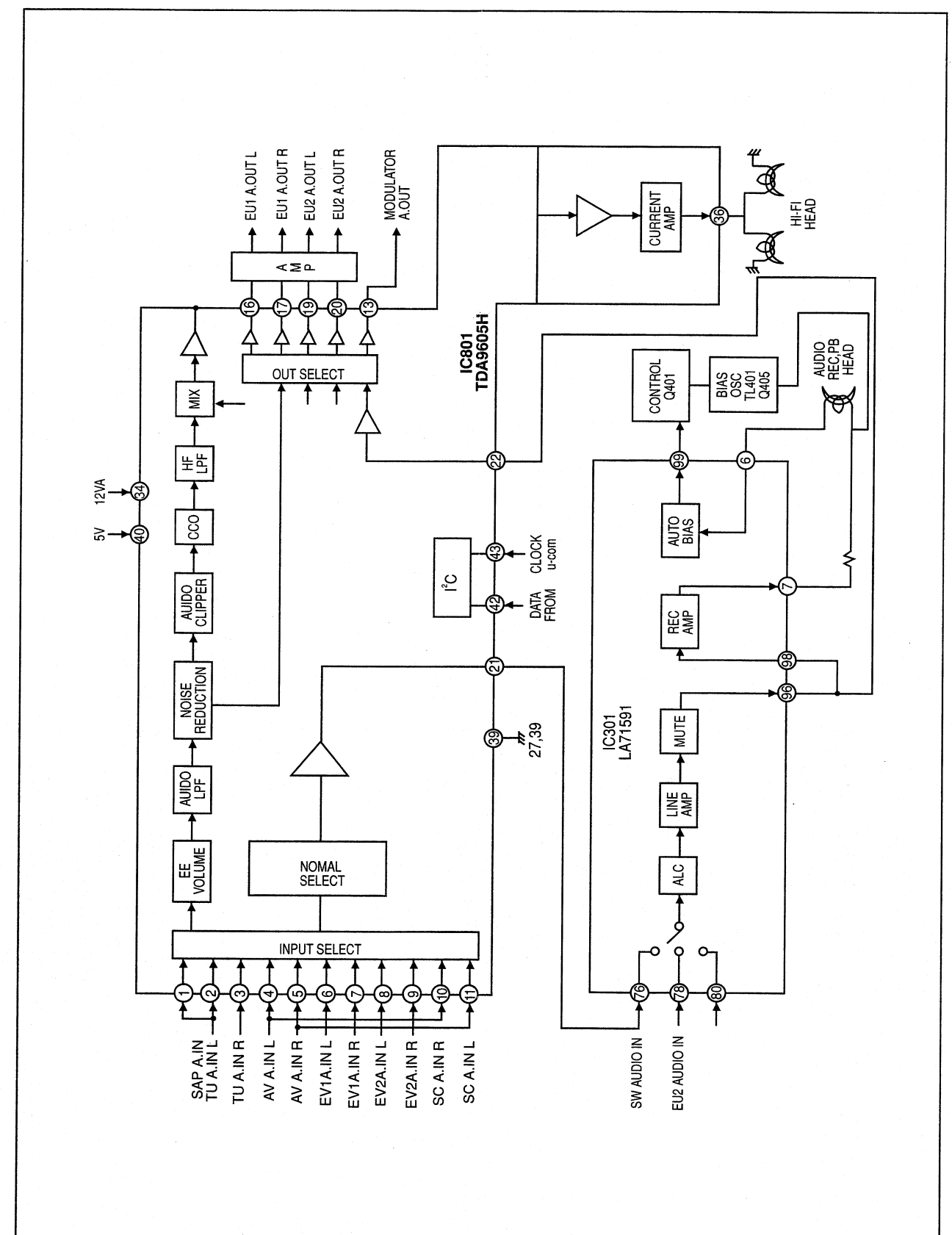
3-19



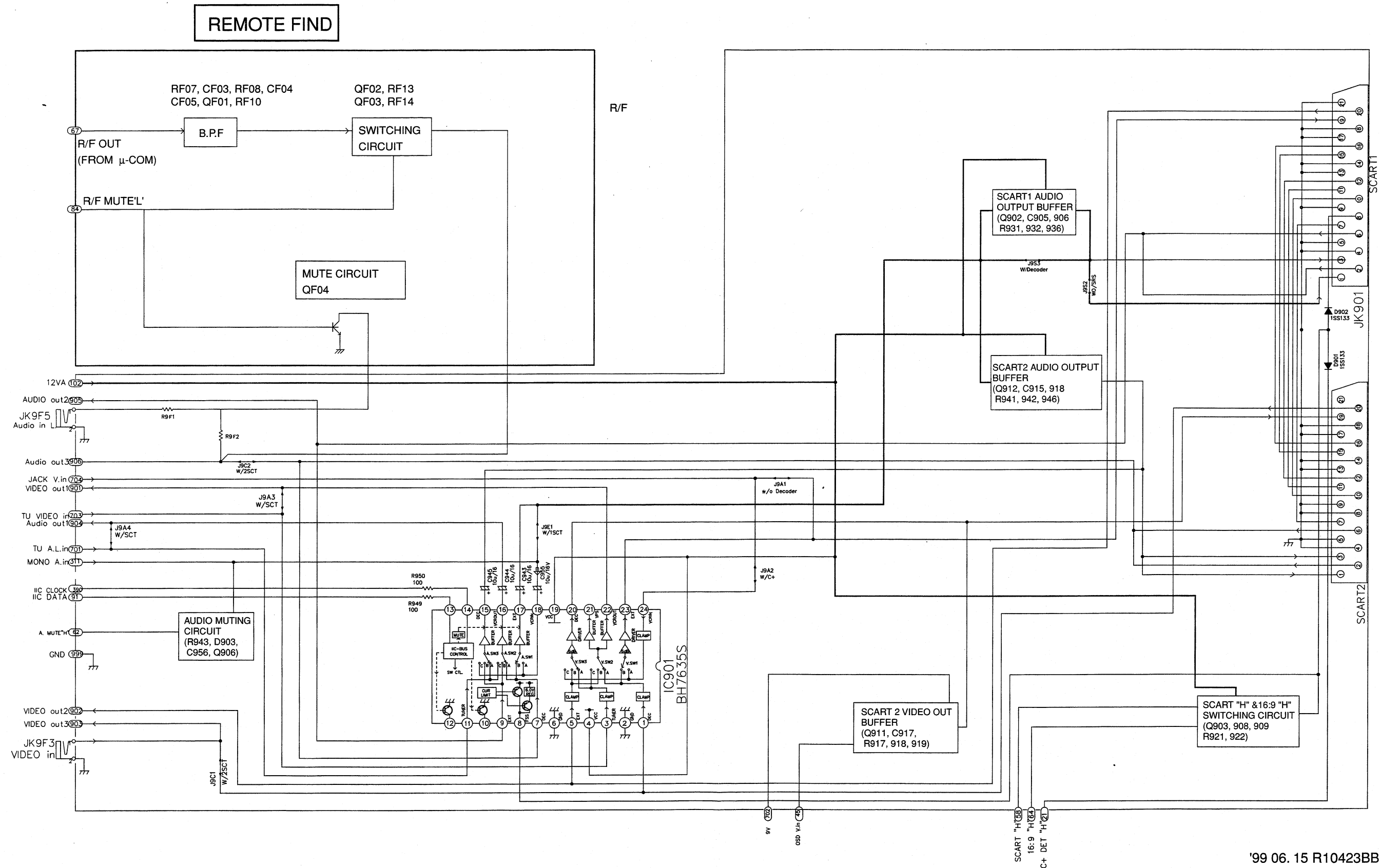
1) PB Mode



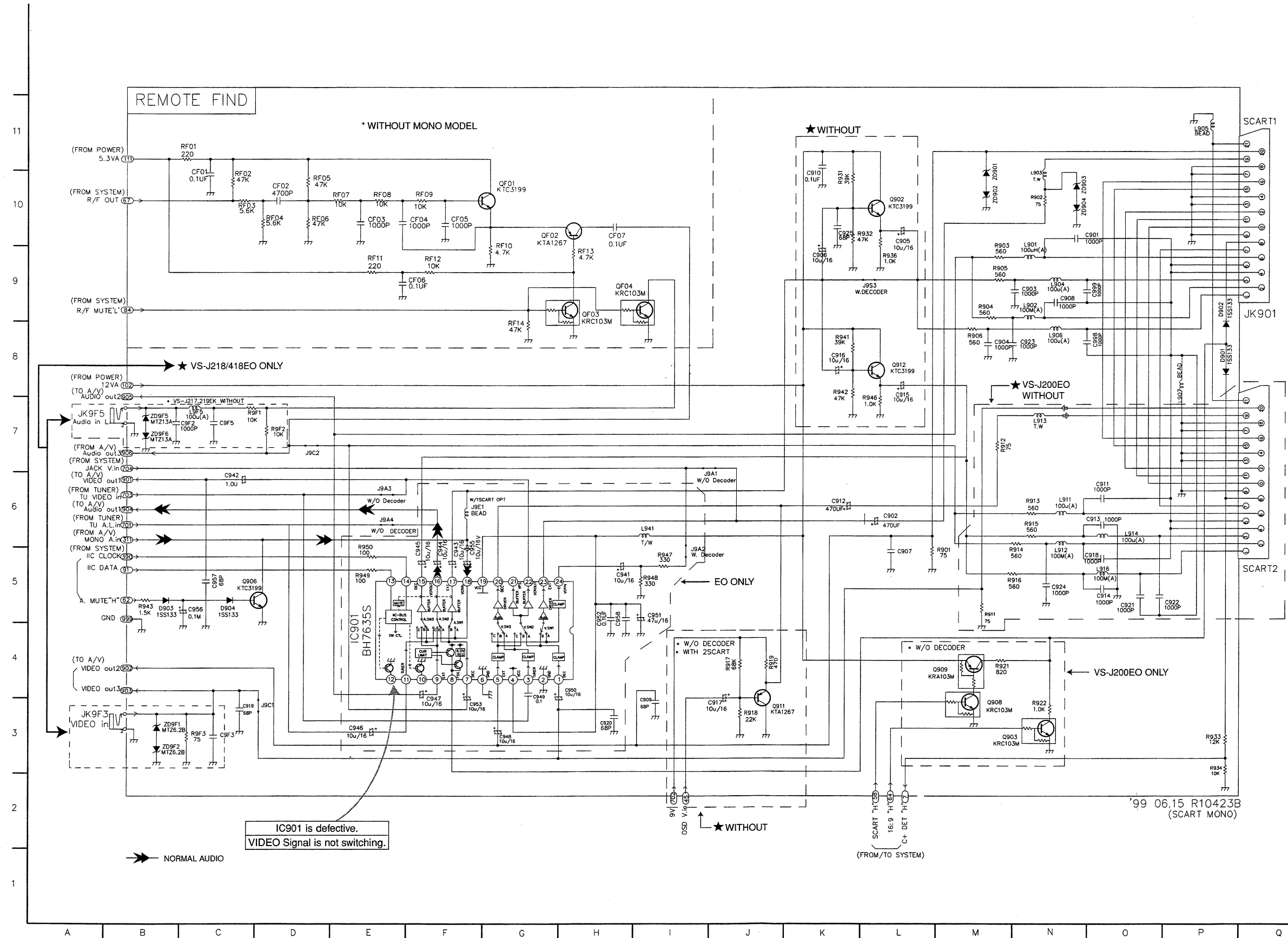
3-21



5. SCART Block Diagram (VS-J200/218/418EO)



5. SCART Circuit Diagram (VS-J200/218/418EO)



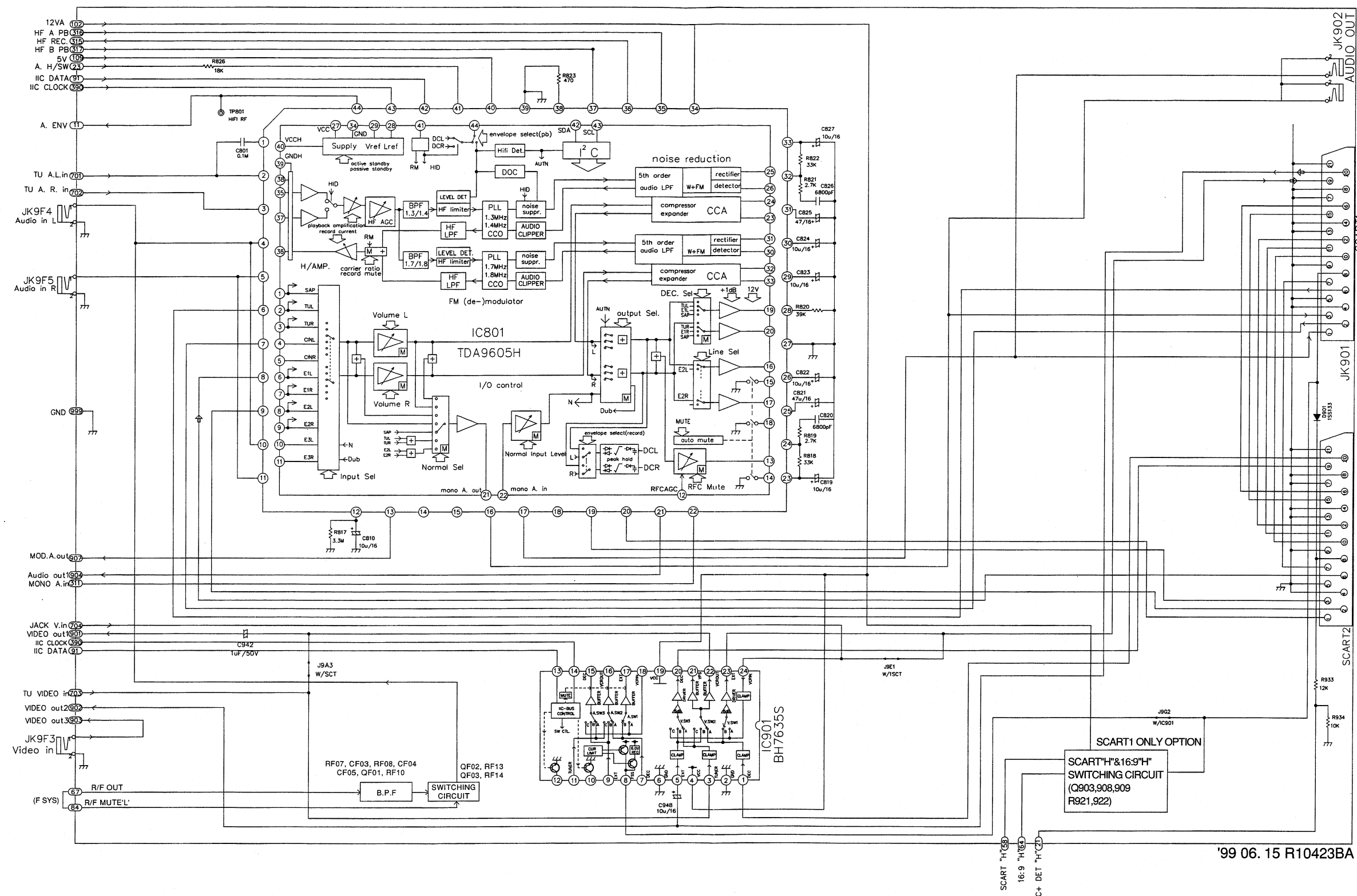
LOCATION GUIDE

C901	N10	L911	N6
C902	L6	L912	N5
C903	N9	L913	N7
C904	M8	L914	O6
C905	L10	L916	O5
C906	K9	L941	I6
C907	L5	L9F5	C7
C908	N9	Q902	L10
C909	I3	Q903	M3
C910	K10	Q906	C5
C911	O6	Q908	M3
C912	K6	Q909	L4
C913	N6	Q911	J3
C914	O5	Q912	L8
C915	L8	QF01	G10
C916	K8	QF02	G10
C917	J3	QF03	H9
C918	N5	QF04	H9
C919	C3	R901	M5
C920	H3	R902	N10
C921	O5	R903	M9
C922	P5	R904	M9
C923	N8	R905	M9
C924	N5	R906	M8
C925	K10	R911	M5
C941	H5	R912	M7
C942	C6	R913	N6
C943	F5	R914	M5
C944	F5	R915	N5
C945	F5	R916	M5
C946	E3	R917	J4
C947	F3	R918	J3
C948	G3	R919	J4
C949	G4	R921	M4
C950	H4	R922	N3
C951	I5	R931	K10
C952	H4	R932	K10
C953	F3	R933	P3
C955	F5	R934	P3
C956	C5	R936	L9
C957	C5	R941	K8
C958	H4	R942	K8
C959	O8	R943	B5
C960	O7	R946	L7
C961	C7	R947	I5
C962	C7	R948	I5
C963	C7	R949	E5
C964	C10	R950	E5
C965	D10	R9F1	C7
C966	D10	R9F2	D7
C967	F10	R9F3	C3
C968	F10	R9F4	C11
C969	F10	R9F5	C10
C970	H10	R9F6	D10
C971	P8	R9F7	D10
C972	P9	R9F8	D10
C973	B5	R9F9	D10
C974	C5	R9F10	E10
C975	C5	R9F11	E10
C976	C5	R9F12	E10
C977	C5	R9F13	E10
C978	C5	R9F14	E10
C979	C5	R9F15	E10
C980	C5	R9F16	E10
C981	C5	R9F17	E10
C982	C5	R9F18	E10
C983	C5	R9F19	E10
C984	C5	R9F20	E10
C985	C5	R9F21	E10
C986	C5	R9F22	E10
C987	C5	R9F23	E10
C988	C5	R9F24	E10
C989	C5	R9F25	E10
C990	C5	R9F26	E10
C991	C5	R9F27	E10
C992	C5	R9F28	E10
C993	C5	R9F29	E10
C994	C5	R9F30	E10
C995	C5	R9F31	E10
C996	C5	R9F32	E10
C997	C5	R9F33	E10
C998	C5	R9F34	E10
C999	C5	R9F35	E10
C1000	C5	R9F36	E10

★IC901 Voltage Sheet

PB	3.6	4.4	4.2	0.9	5.1	0.0	0.0	0.7	0.6	0.7	11.9	3.9
REC	1.9	4.4	4.1	0.9	5.0	0.0	0.0	4.2	4.3	4.2	12.0	3.9
20 15												
IC901(BH7635S)												
5 10												
PB	3.8	3.9	3.9	3.9	3.8	3.8	3.8	3.8	3.8	3.8	3.8	0.0
REC	3.8	3.9	3.9	3.9	3.8	3.8	3.8	3.8	3.8	3.9	3.9	0.0

5. Hi-Fi, SCART Block Diagram (VS-J701/718EO-D,EO-DN)



5. Hi-Fi, SCART Circuit Diagram (VS-J701/718EO-D,EO-DN)

* IC901 Voltage Sheet

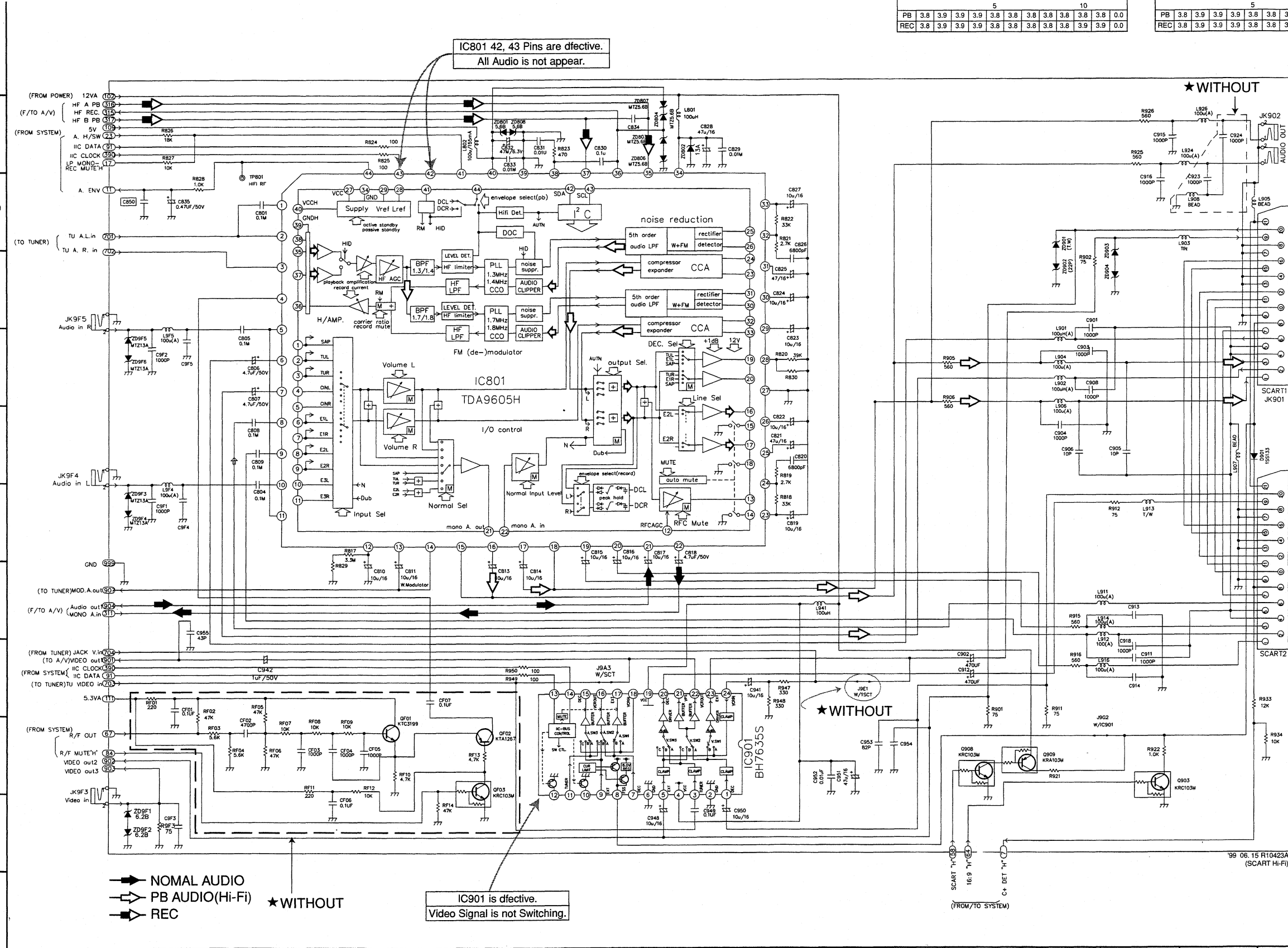
	PB	3.6	4.4	4.2	0.9	5.1	0.0	0.0	0.7	0.6	0.7	11.9	3.9
REC	1.9	4.4	4.1	0.9	5.0	0.0	4.2	4.3	4.2	4.3	12.0	3.9	
IC901(BH7635S)													
					20						15		
						5					10		
PB	3.8	3.9	3.9	3.9	3.8	3.8	3.8	3.8	3.8	3.8	3.8	0.0	
REC	3.8	3.9	3.9	3.9	3.8	3.8	3.8	3.8	3.8	3.9	3.9	0.0	

* IC801 Voltage Sheet

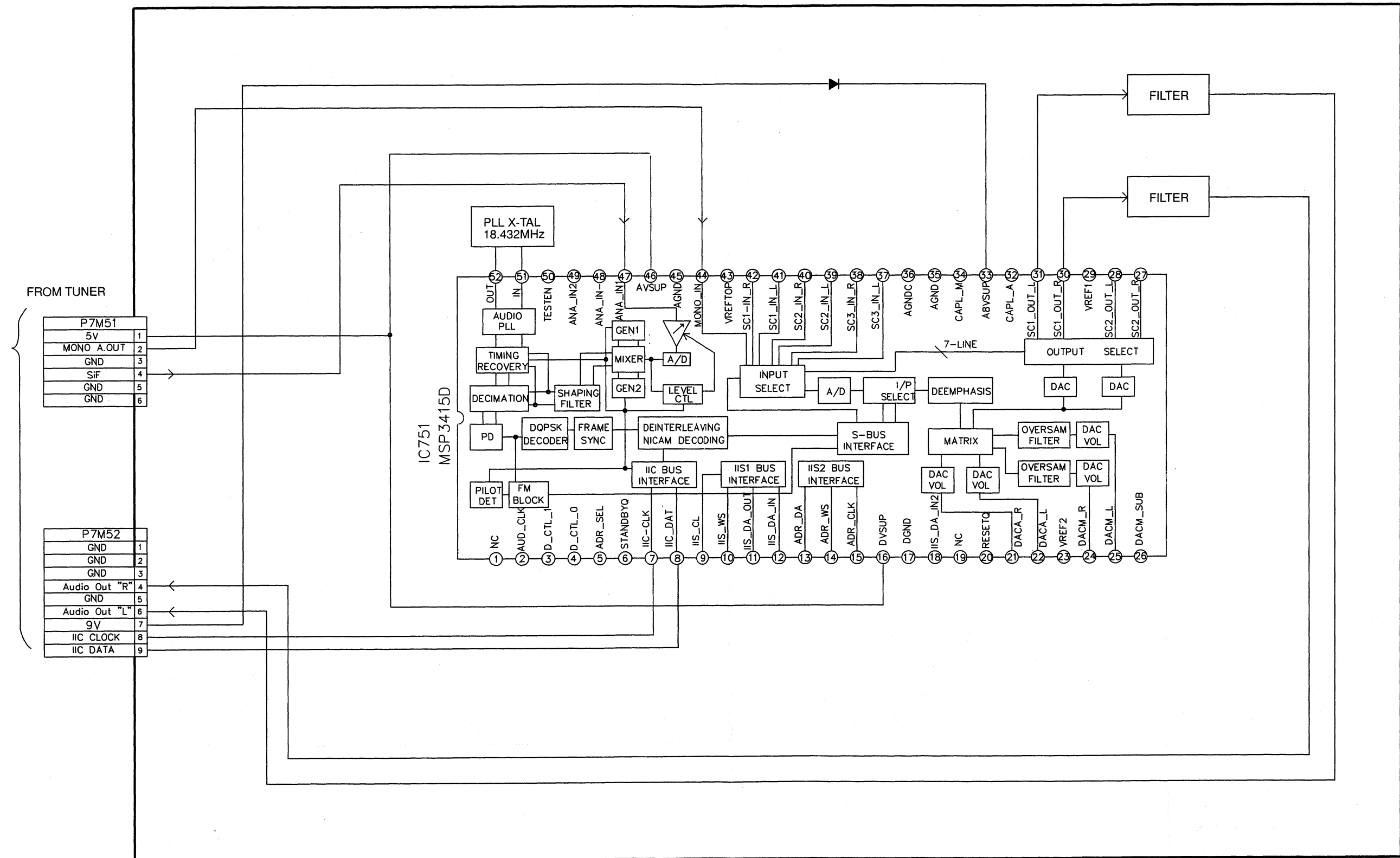
	PB	3.6	4.4	4.2	0.9	5.1	0.0	0.0	0.7	0.6	0.7	11.9	3.9	3.9	3.9	0.8	3.9	3.9	0.0	0.8	3.9	3.9	3.9
REC	1.9	4.4	4.1	0.9	5.0	0.0	4.2	4.3	4.2	4.3	12.0	3.9	3.9	3.9	0.8	3.9	3.9	0.0	0.8	3.9	3.9	3.9	3.9
IC801(TDA9605H)																							
												40											
													5										
														10									
															15								
																20							
PB	3.8	3.9	3.9	3.9	3.8	3.8	3.8	3.8	3.8	3.8	3.8	0.0	3.9	0.0	0.0	6.0	6.0	0.0	6.0	6.0	0.0	6.0	4.5
REC	3.8	3.9	3.9	3.9	3.8	3.8	3.8	3.8	3.8	3.8	3.9	0.0	3.8	0.0	0.0	6.0	6.0	0.0	6.0	6.0	0.0	6.1	4.6

LOCATION GUIDE

C801	D10	L903	O10
C804	D6	L904	N8
C805	C8	L905	O10
C806	D8	L906	N7
C807	D8	L907	P7
C808	D7	L908	P10
C809	D7	L911	N5
C810	E5	L912	N4
C811	F5	L913	O6
C813	G5	L914	N5
C814	G5	L915	N4
C815	H6	L924	P11
C816	H6	L926	P11
C817	I6	L941	K5
C818	I6	L9F4	B6
C819	J6	L9F5	B8
C820	K7	Q903	O3
C821	J7	Q908	M3
C822	J7	Q909	N3
C823	J8	QF01	F3
C824	J9	QF02	G3
C825	J9	QF03	G3
C826	K10	R817	E6
C827	K10	R818	J6
C828	I11	R819	J7
C829	J11	R820	J8
C830	H11	R821	J10
C831	G11	R822	J10
C832	G11	R823	H11
C833	G11	R824	E11
C834	H11	R825	E11
C835	C10	R826	B11
C850	B10	R827	B10
C901	N9	R828	C10
C902	M4	R829	E5
C903	N8	R830	J8
C904	N7	R901	M4
C905	O7	R902	N9
C906	N7	R905	L8
C908	N8	R906	L8
C911	O4	R911	N4
C912	M4	R912	O6
C915	O5	R915	N5
C914	O4	R916	N4
C915	O11	R921	N3
C916	O10	R922	O3
C918	O4	R925	O11
C923	P11	R926	O11
C924	P11	R933	O4
C941	J4	R934	O3
C942	D4	R947	J4
C948	I2	R948	J4
C949	I2	R949	C4
C950	J2	R950	G4
C951	K3	R9F3	B2
C952	K3	RF01	B4
C953	K3	RF02	C4
C954	L3	RF03	C3
C955	C5	RF04	C3
C9F1	B6	RF05	D4
C9F2	B8	RF06	D3
C9F3	C2	RF07	D3
C9F4	C6	RF08	D3
C9F5	C8	RF09	F3
CF01	C4	RF10	C4
CF02	C3	RF11	D3
CF03	D3	RF12	E3
CF04	E3	RF13	F3
CF05	E3	RF14	F2
CF06	E2	TP801	D10
CF07	F4	ZD801	G11
D901	O7	ZD802	I11
IC801	F8	ZD803	H11
IC901	J5	ZD804	I11
J9A3	H4	ZD806	H11
J9E1	K4	ZD807	I11
J9G2	N3	ZD808	D10
JK901	O8	ZD901	N9
JK902	O11	ZD902	N9
JK9F3	A3	ZD903	O9
JK9F4	A7	ZD904	O9
JK9F5	A9	ZD9F1	B2
L801	I11	ZD9F2	B2
L802	F11	ZD9F3	B6
L901	N8	ZD9F4	B6
L902	N8	ZD9F5	B8
		ZD9F6	B8

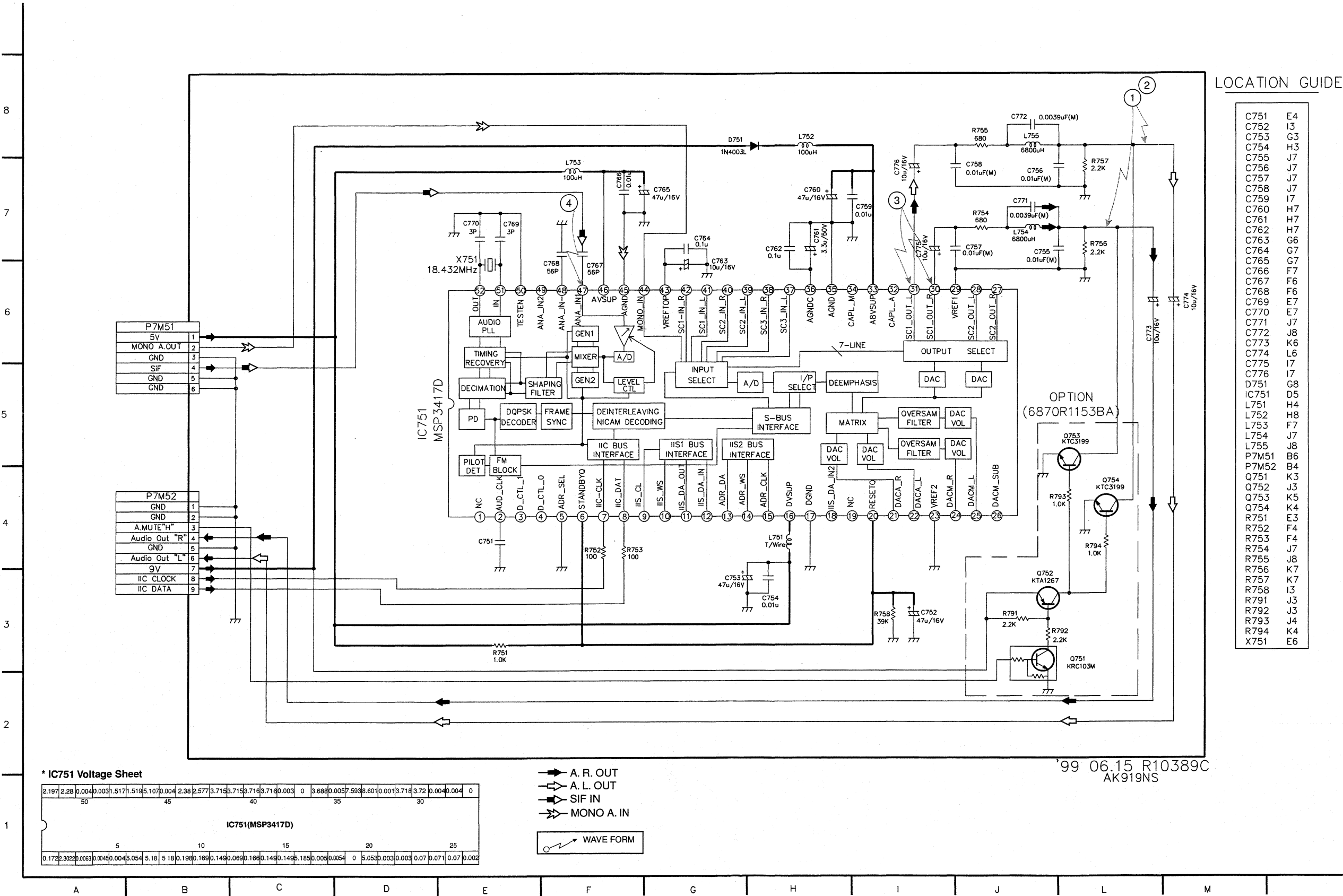


6. NICAM, A2 Block Diagram (VS-J701/718EO-D, EO-DN)

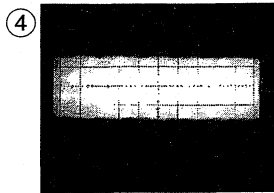
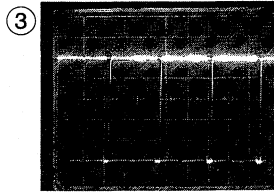
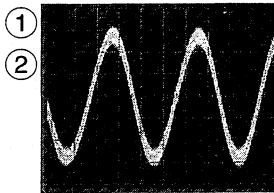


'99 06. 15 R10389BA

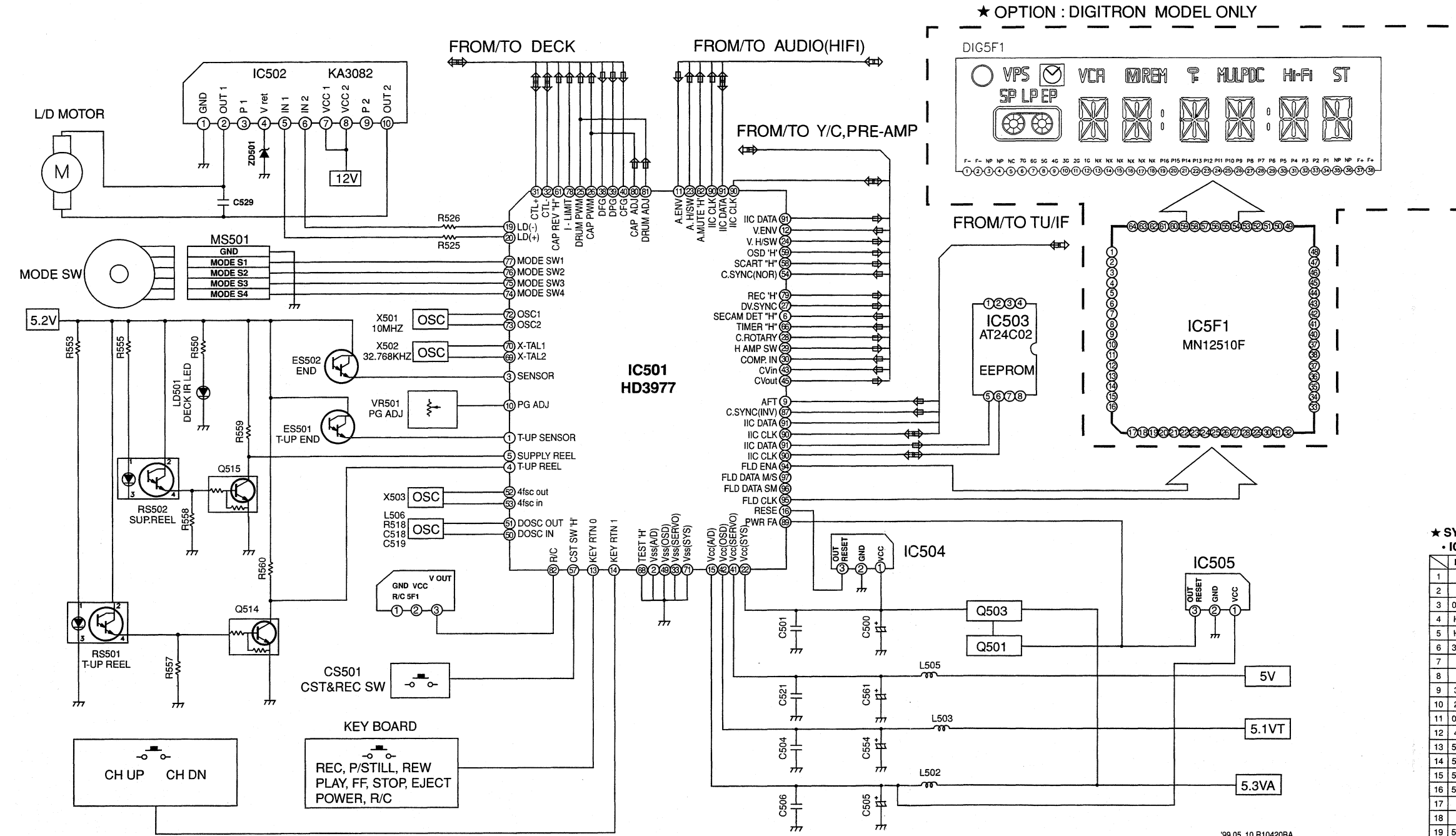
6. NICAM, A2 Circuit Diagram (VS-J701/718EO-D,EO-DN)



* NICAM Oscilloscope Waveform



7. System Block Diagram



★ IC502 Voltage Sheet

PB	0.4	0.8	12.19	12.19	2.16
REC	0.4	0.8	12.19	12.19	2.16
					
PB	0	0.4	0.8	0.28	2.16
REC	0	0.4	0.8	0.28	2.16

★ IC503 Voltage Sheet

PB	5.34	0.00	4.60	4.60
REC	5.34	0.00	5.21	5.21
5				
IC503				
1				
PB	0.00	0.00	0.00	0.00
REC	0.00	0.00	0.00	0.00

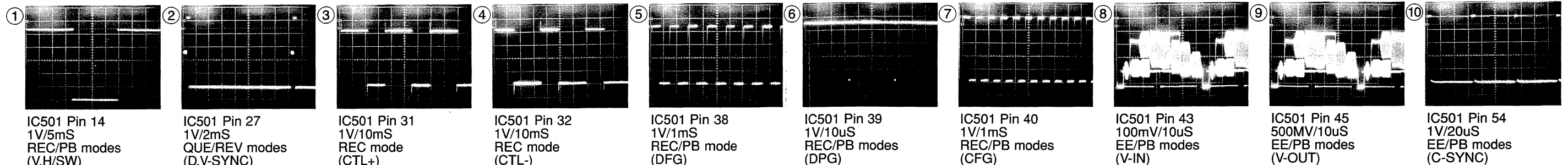
★ System IC Voltage Sheet

	Emitter		Collector		Base	
	PB	REC	PB	REC	PB	REC
Q514	0	0	H/L	H/L	H/L	H/L
Q515	0	0	H/L	H/L	H/L	H/L
Q506	0	0	0.7	0.7	0.4	0.4
Q503	5.32	5.32	5.25	5.24	4.43	4.43
Q501	0	0	0	0	0.75	0.75

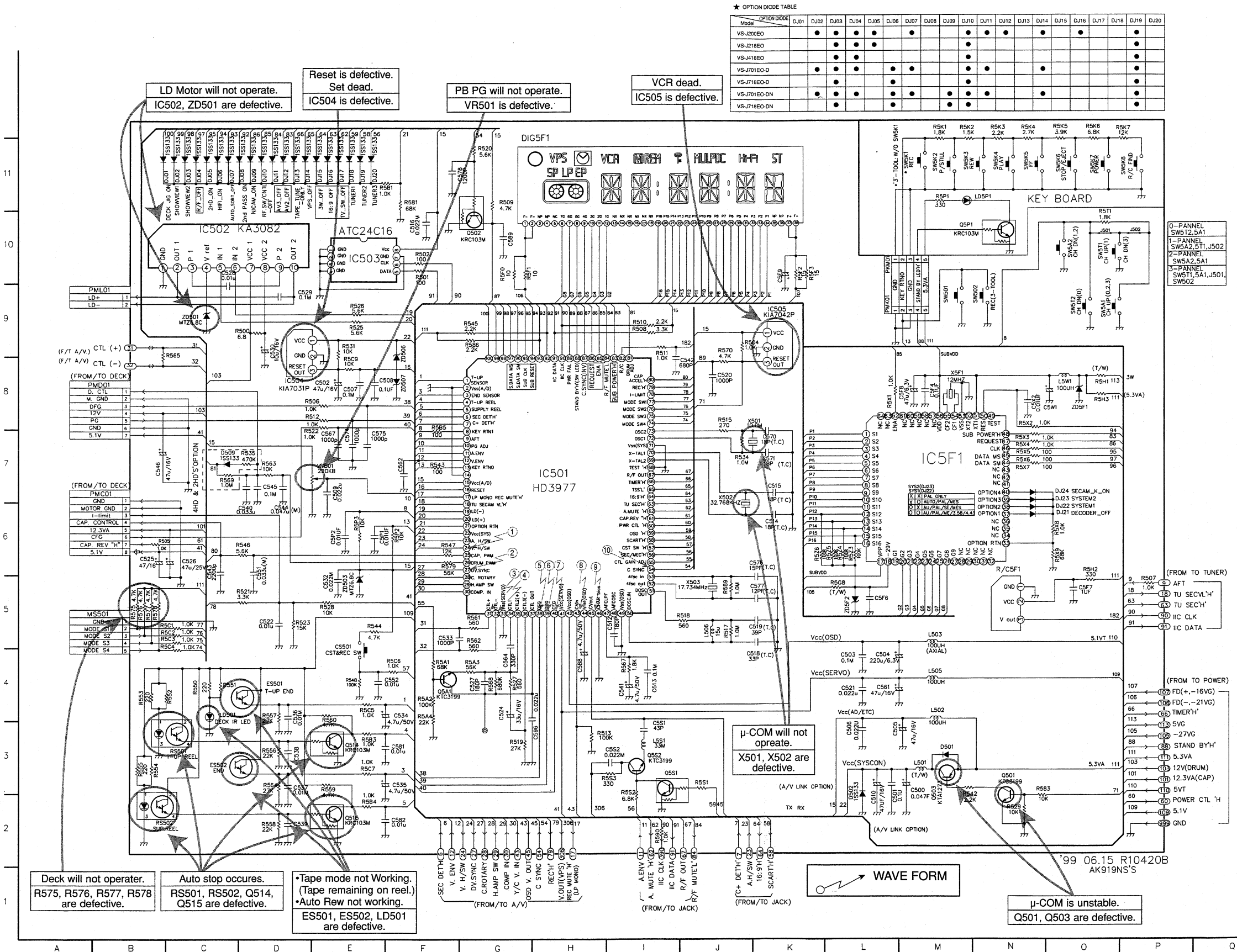
★ SYSTEM IC Voltage Sheet
• IC501(HD3977)

	PB	REC		PB	REC		PB	REC		PB	REC		PB	REC		PB	REC
1	0	0	21	5.24	5.24	41	5.24	5.24	61	0	0	81	2.55	2.55			
2	0	0	22	5.24	5.24	42	4.99	4.99	62	0	0	82	5.07	5.07			
3	0.78	0.79	23	H/L	H/L	43	2.41	2.37	63	0	0	83	0	0			
4	H/L	H/L	24	H/L	H/L	44	1.36	1.36	64	5.21	5.21	84	0	0			
5	H/L	H/L	25	2.81	2.81	45	2.43	2.43	65	5.21	5.21	85	0	0			
6	3.34	3.3	26	2.73	2.73	46	0	0	66	0	0	86	0	0			
7	1	2	27	0	0	47	2.01	2.01	67	4.58	4.58	87	4.7	4.7			
8	1	2	28	H/L	H/L	48	1.41	1.41	68	0	0	88	0	0			
9	3.2	1.62	29	5.15	5.15	49	0	0	69	1.45	1.45	89	4.87	4.87			
10	2.2	2.2	30	4.97	4.98	50	1.32	1.32	70	0.83	0.83	90	5.08	5.08			
11	0.74	0	31	2.25	2.25	51	1.35	1.35	71	0	0	91	5.03	5.03			
12	4.0	2.3	32	2.25	2.2	52	2.5	2.5	72	2.49	2.47	92	5.28	5.28			
13	5.28	5.28	33	0	0	53	2.43	2.43	73	2.47	2.47	93	5.28	5.28			
14	5.28	5.28	34	0	0	54	0.38	0.38	74	5.29	5.29	94	4.6	4.6			
15	5.28	5.28	35	2.25	2.25	55	5.21	5.21	75	0	0	95	5.2	5.2			
16	5.24	5.28	36	2.25	2.25	56	0	0	76	5.29	5.29	96	0	0			
17	0	0	37	2.25	2.25	57	5.05	5.05	77	2.29	2.29	97	0	0			
18	0	0	38	Pulse	Pulse	58	5.16	5.20	78	3.14	3.15	98	0	0			
19	5.18	5.18	39	Pulse	Pulse	59	0	0	79	0	4.84	99	0	0			
20	5.18	5.18	40	Pulse	Pulse	60	5.21	5.14	80	2.8	2.8	100	0	0			

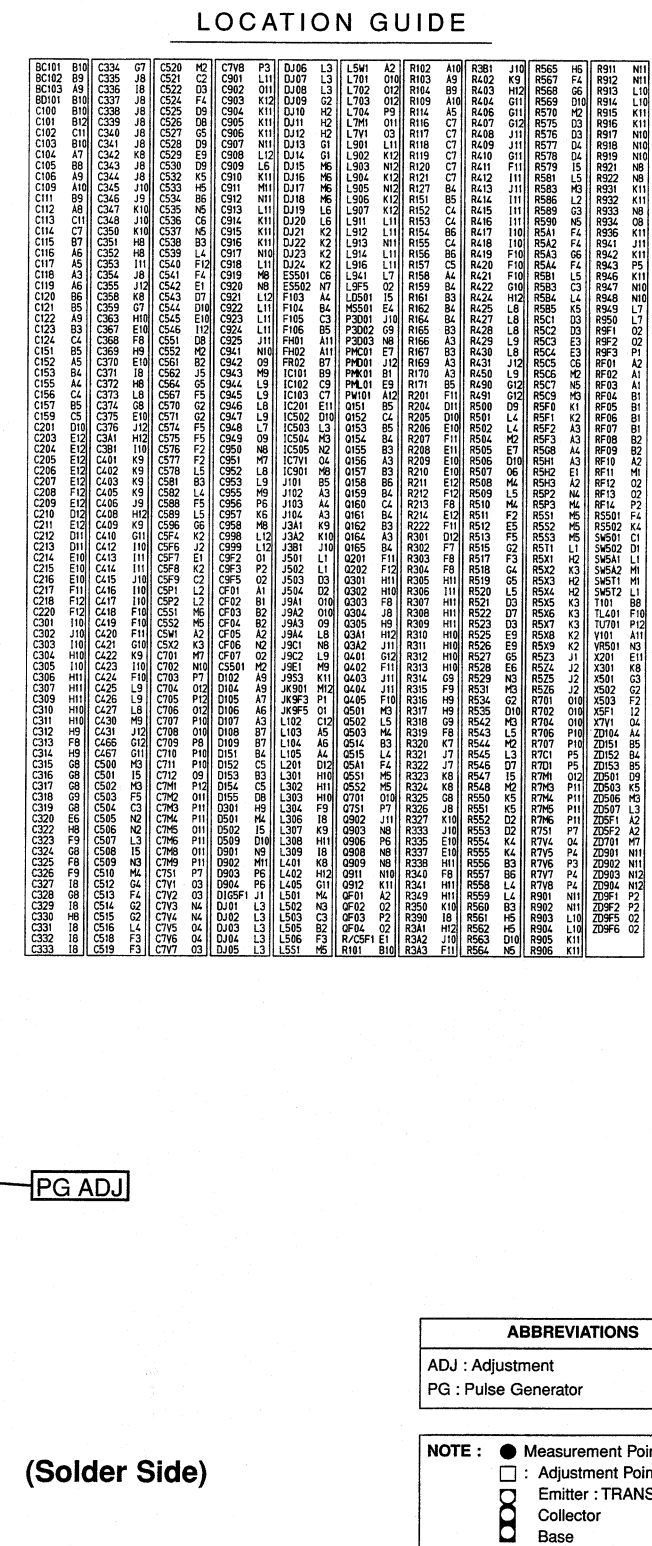
* IC501 Waveform Photographs



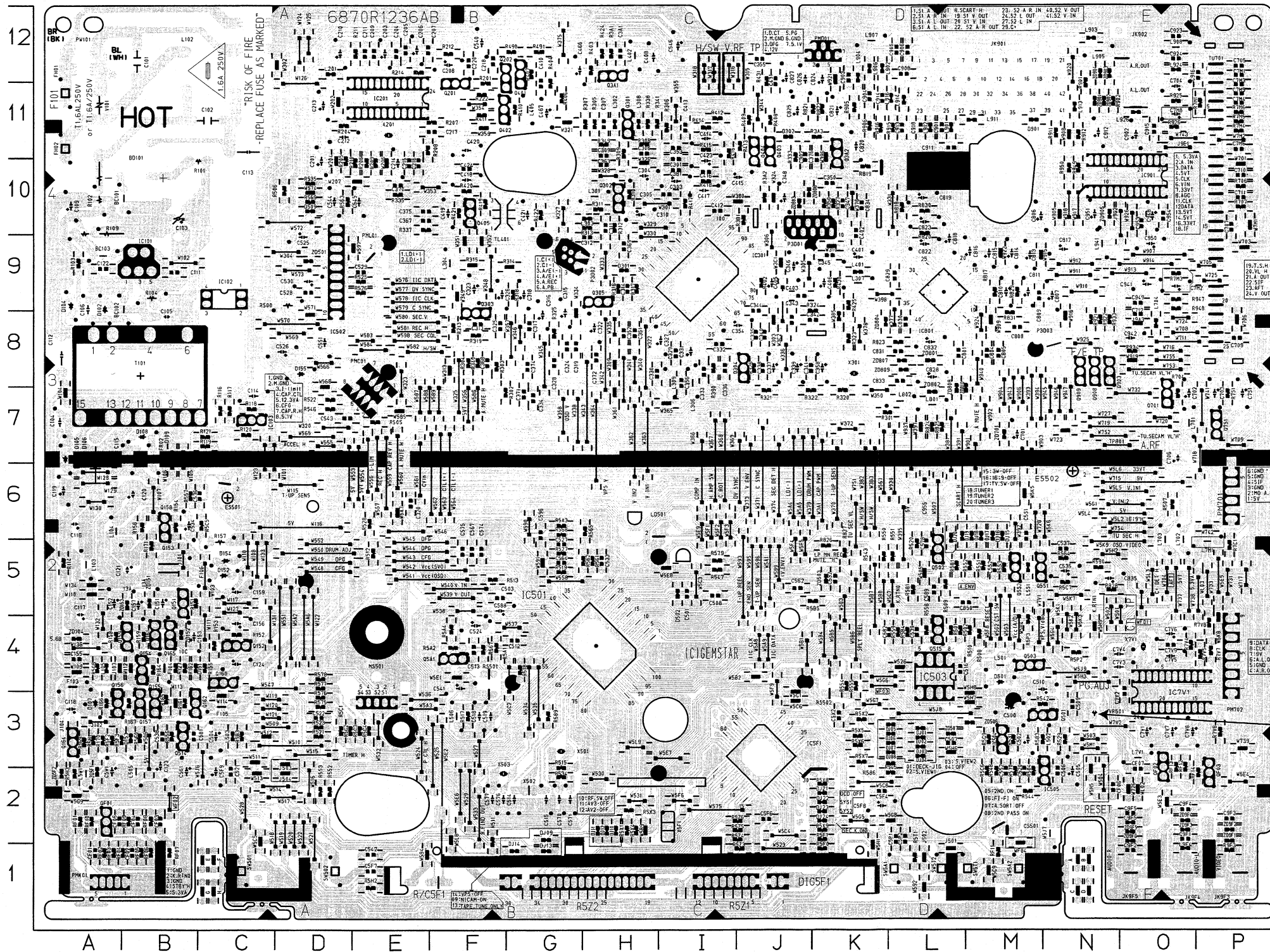
7. System Circuit Diagram



1. MAIN P.C.Board (VS-J200/218/418EO)



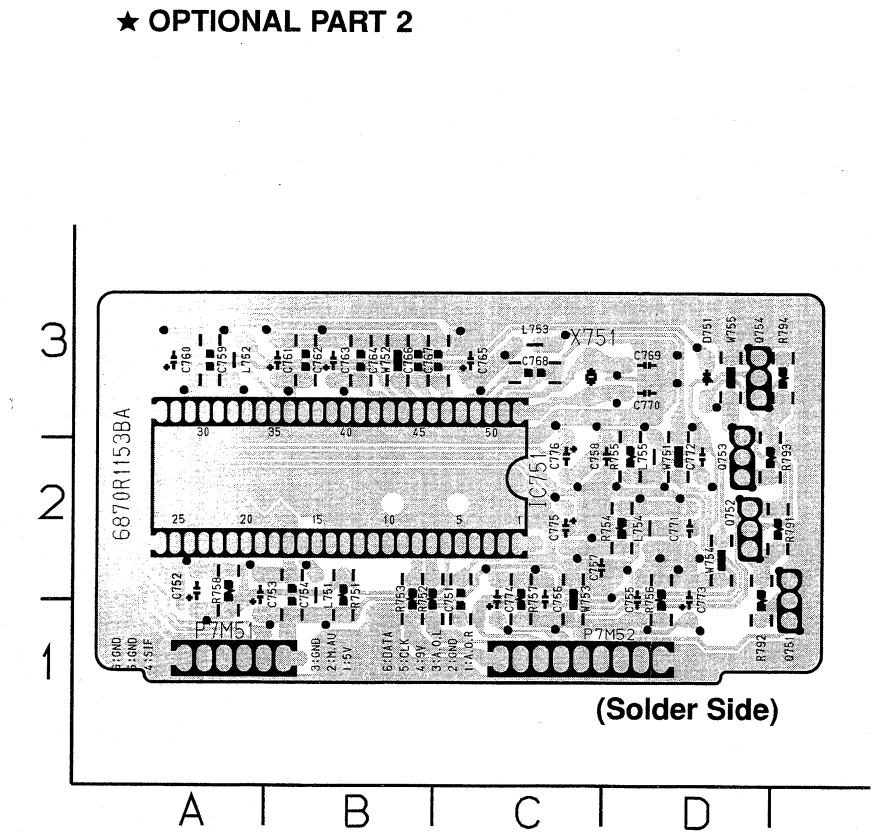
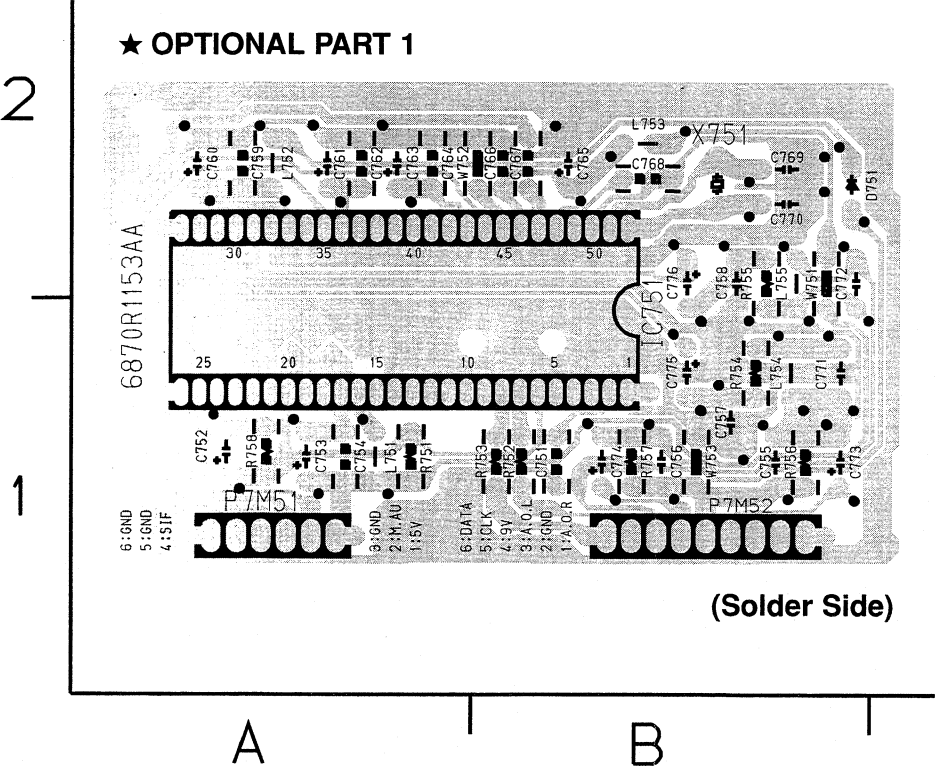
1. MAIN P.C.Board (VS-J701/718EO-D, EO-DN)



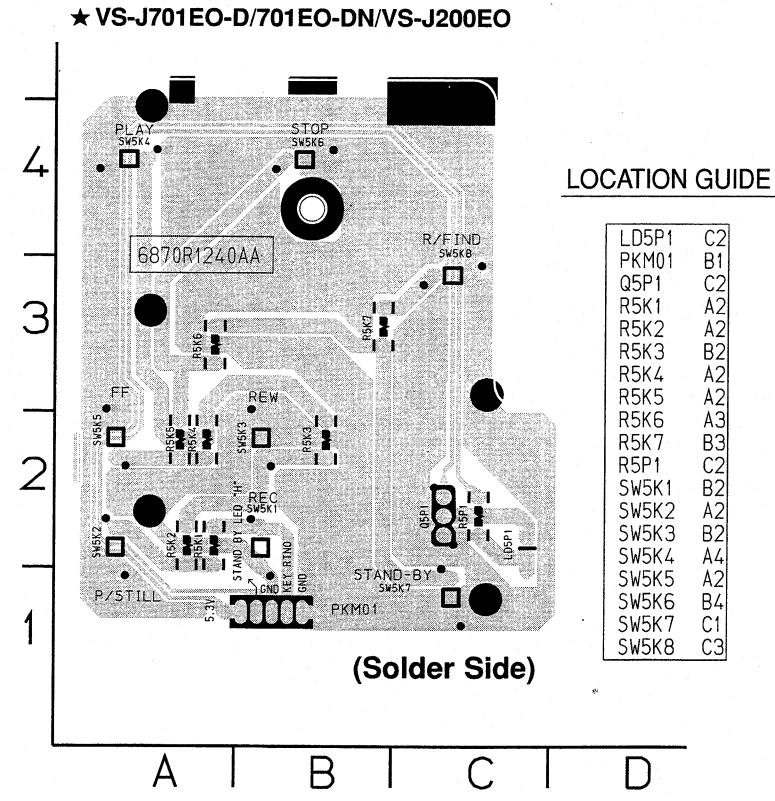
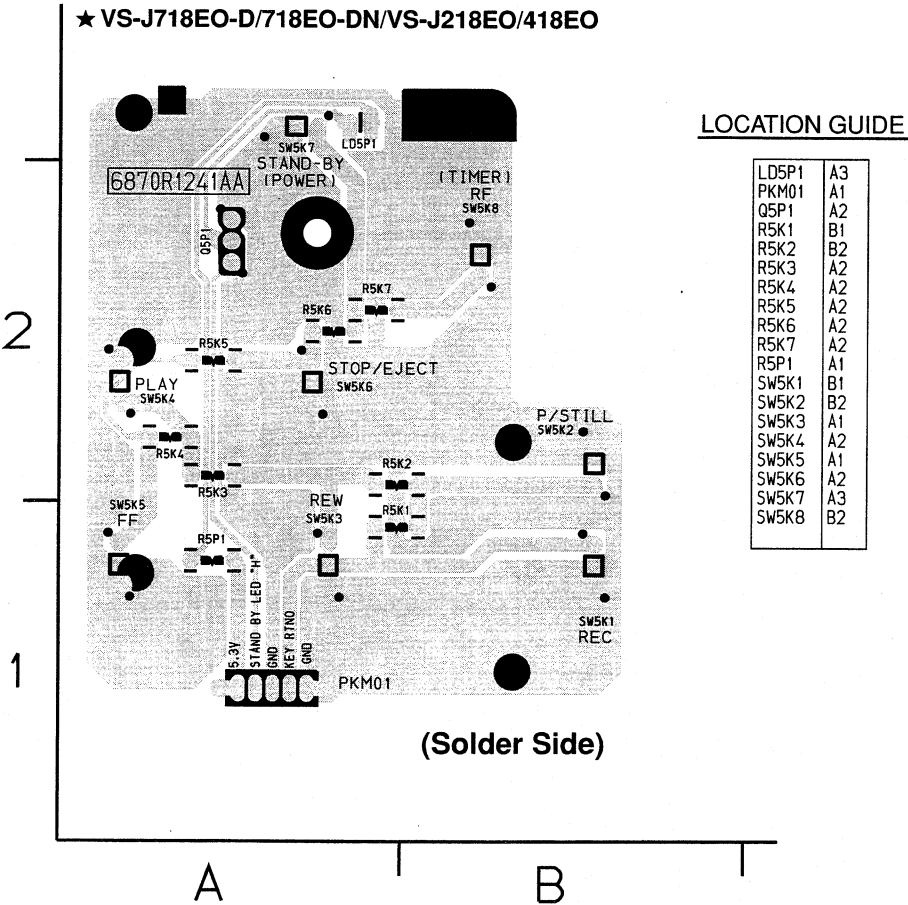
LOCATION GUIDE

8C101	B101	C220	G8	C514	G2	C799	P11	CF03	B2	J943	O8	Q158	B6	R210	E10	R505	E7	R5C7	N5	R950	N10
8C102	B9	C229	B8	C515	G2	C751	P7	CF04	B2	J9E1	O11	Q159	B4	R211	E12	R506	D10	R5C9	N1	R9F3	P1
8C103	A9	C330	H8	C516	G2	C752	P1	CF05	A2	J9E2	O10	Q160	B4	R212	F12	R507	O6	R5F0	K1	R9F4	A2
8C104	B10	C331	B8	C517	G2	C753	P2	CF06	N2	J9E3	O11	Q161	B4	R213	F8	R508	M4	R5F1	K2	R9F5	A1
8C105	B10	C332	B8	C518	F3	C754	N4	CF07	O2	J9E4	O12	Q162	B3	R214	E12	R509	L5	R5F2	A3	R9F6	A1
8C106	B10	C333	B8	C519	G2	C755	N4	CF08	N2	J9E5	P1	Q163	A3	R215	F8	R510	M4	R5F3	A3	R9F7	A1
8C107	C11	C334	O7	C520	G2	C756	O4	CF09	A9	J9E6	P1	Q164	A3	R216	F8	R511	F2	R5F4	A4	R9F8	B1
8C108	B10	C335	J8	C521	G2	C757	O4	CF10	A9	J9E7	P1	Q165	A3	R217	F8	R512	E5	R5F5	A4	R9F9	B1
8C109	A10	C336	B8	C522	G2	C758	O4	CF11	A9	J9E8	P1	Q166	A3	R218	F8	R513	F2	R5F6	A4	R9F10	B1
8C110	A10	C337	J8	C523	G2	C759	O4	CF12	A9	J9E9	P1	Q167	A3	R219	F8	R514	E5	R5F7	A4	R9F11	B1
8C111	A10	C338	J8	C524	G2	C760	O4	CF13	A9	J9E10	P1	Q168	A3	R220	F8	R515	F2	R5F8	A4	R9F12	B1
8C112	A10	C339	J8	C525	G2	C761	O4	CF14	A9	J9E11	P1	Q169	A3	R221	F8	R516	E5	R5F9	A4	R9F13	B1
8C113	A10	C340	J8	C526	G2	C762	O4	CF15	A9	J9E12	P1	Q170	A3	R222	F8	R517	F2	R5F10	A4	R9F14	B1
8C114	A10	C341	J8	C527	G2	C763	O4	CF16	A9	J9E13	P1	Q171	A3	R223	F8	R518	E5	R5F11	A4	R9F15	B1
8C115	A10	C342	J8	C528	G2	C764	O4	CF17	A9	J9E14	P1	Q172	A3	R224	F8	R519	F2	R5F12	A4	R9F16	B1
8C116	A10	C343	J8	C529	G2	C765	O4	CF18	A9	J9E15	P1	Q173	A3	R225	F8	R520	E5	R5F13	A4	R9F17	B1
8C117	A10	C344	J8	C530	G2	C766	O4	CF19	A9	J9E16	P1	Q174	A3	R226	F8	R521	F2	R5F14	A4	R9F18	B1
8C118	A10	C345	J8	C531	G2	C767	O4	CF20	A9	J9E17	P1	Q175	A3	R227	F8	R522	E5	R5F15	A4	R9F19	B1
8C119	A10	C346	J8	C532	G2	C768	O4	CF21	A9	J9E18	P1	Q176	A3	R228	F8	R523	F2	R5F16	A4	R9F20	B1
8C120	A10	C347	J8	C533	G2	C769	O4	CF22	A9	J9E19	P1	Q177	A3	R229	F8	R524	E5	R5F17	A4	R9F21	B1
8C121	A10	C348	J8	C534	G2	C770	O4	CF23	A9	J9E20	P1	Q178	A3	R230	F8	R525	F2	R5F18	A4	R9F22	B1
8C122	A10	C349	J8	C535	G2	C771	O4	CF24	A9	J9E21	P1	Q179	A3	R231	F8	R526	E5	R5F19	A4	R9F23	B1
8C123	A10	C350	J8	C536	G2	C772	O4	CF25	A9	J9E22	P1	Q180	A3	R232	F8	R527	F2	R5F20	A4	R9F24	B1
8C124	A10	C351	J8	C537	G2	C773	O4	CF26	A9	J9E23	P1	Q181	A3	R233	F8	R528	E5	R5F21	A4	R9F25	B1
8C125	A10	C352	J8	C538	G2	C774	O4	CF27	A9	J9E24	P1	Q182	A3	R234	F8	R529	F2	R5F22	A4	R9F26	B1
8C126	A10	C353	J8	C539	G2	C775	O4	CF28	A9	J9E25	P1	Q183	A3	R235	F8	R530	E5	R5F23	A4	R9F27	B1
8C127	A10	C354	J8	C540	G2	C776	O4	CF29	A9	J9E26	P1	Q184	A3	R236	F8	R531	F2	R5F24	A4	R9F28	B1
8C128	A10	C355	J8	C541	G2	C777	O4	CF30	A9	J9E27	P1	Q185	A3	R237	F8	R532	E5	R5F25	A4	R9F29	B1
8C129	A10	C356	J8	C542	G2	C778	O4	CF31	A9	J9E28	P1	Q186	A3	R238	F8	R533	F2	R5F26	A4	R9F30	B1
8C130	A10	C357	J8	C543	G2	C779	O4	CF32	A9	J9E29	P1	Q187	A3	R239	F8	R534	E5	R5F27	A4	R9F31	B1
8C131	A10	C358	J8	C544	G2	C780	O4	CF33	A9	J9E30	P1	Q188	A3	R240	F8	R535	F2	R5F28	A4	R9F32	B1
8C132	A10	C359	J8	C545	G2	C781	O4	CF34	A9	J9E31	P1	Q189	A3	R241	F8	R536	E5	R5F29	A4	R9F33	B1
8C133	A10	C360	J8	C546	G2	C782	O4	CF35	A9	J9E32	P1	Q190	A3	R242	F8	R537	F2	R5F30	A4	R9F34	B1
8C134	A10	C361	J8	C547	G2	C783	O4	CF36	A9	J9E33	P1	Q191	A3	R243	F8	R538	E5	R5F31	A4	R9F35	B1
8C135	A10	C362	J8	C548	G2	C784	O4	CF37	A9	J9E34	P1	Q192	A3	R244	F8	R539	F2	R5F32	A4	R9F36	B1
8C136	A10	C363	J8	C549	G2	C785	O4	CF38	A9	J9E35	P1	Q193	A3	R245	F8	R540	E5	R5F33	A4	R9F37	B1
8C137	A10	C364	J8	C550	G2	C786	O4	CF39	A9	J9E36	P1	Q194	A3	R246	F8	R541	F2	R5F34	A4	R9F38	B1
8C138	A10	C365	J8	C551	G2	C787	O4	CF40	A9	J9E37	P1	Q195	A3	R247	F8	R542	E5	R5F35	A4	R9F39	B1
8C139	A10	C366	J8	C552	G2	C788	O4	CF41	A9	J9E38	P1	Q196	A3	R248	F8	R543	F2	R5F36	A4	R9F40	B1
8C140	A10	C367	J8	C553	G2	C789	O4	CF42	A9	J9E39	P1	Q197	A3	R249	F8	R544	E5	R5F37	A4	R9F41	B1
8C141	A10	C368	J8	C554	G2	C790	O4	CF43	A9	J9E40	P1	Q198	A3	R250	F8	R545	F2	R5F38	A4	R9F42	B1
8C142	A10	C369	J8	C555	G2	C791	O4	CF44	A9	J9E41	P1	Q199	A3	R251	F8	R546	E5	R5F39	A4	R9F43	B1
8C143	A10	C370	J8	C556	G2	C792	O4	CF45	A9	J9E42	P1	Q200	A3	R252	F8	R547	F2	R5F40	A4	R9F44	B1
8C144	A10	C371	J8	C557	G2	C793	O4	CF46	A9	J9E43	P1	Q201	A3	R253	F8	R548	E5	R5F41	A4	R9F45	B1
8C145	A10	C372	J8	C558	G2	C794	O4	CF47	A9	J9E44	P1	Q202	A3	R254	F8	R549	F2	R5F42	A4	R9F46	B1
8C146	A10	C373	J8	C559	G2	C795	O4	CF48	A9	J9E45	P1	Q203	A3	R255	F8	R550	E5	R5F43	A4	R9F47	B1
8C147	A10	C374	J8	C560	G2	C796	O4	CF49	A9	J9E46	P1	Q204	A3	R256	F8	R551	F2	R5F44	A4	R9F48	B1
8C148	A10	C375	J8	C561	G2	C797	O4	CF50	A9	J9E47	P1	Q205	A3	R257	F8	R552	E5	R5F45	A4	R9F49	B1
8C149	A10	C376	J8	C562	G2	C798	O4	CF51	A9	J9E48	P1	Q206	A3	R258	F8	R553	F2	R5F46	A4	R9F50	B1
8C150	A10	C377	J8	C563	G2	C799	O4	CF52	A9	J9E49	P1	Q207	A3	R259	F8	R554	E5	R5F47	A4	R9F51	B1
8C151	A10	C378	J8	C564	G2	C800	O4	CF53	A9	J9E50	P1	Q208	A3	R260	F8	R555	F2	R5F48	A4	R9F52	B1
8C152	A10	C379	J8	C565	G2	C801	O4	CF54	A9	J9E51	P1	Q209	A3	R261	F8	R556	E5	R5F49	A4	R9F53	B1
8C153	A10	C380	J8	C566	G2	C802	O4	CF55	A9	J9E52	P1	Q210	A3	R262	F8	R557	F2	R5F50	A4	R9F54	B1
8C154	A10	C381	J8	C567	G2	C803	O4	CF56	A9	J9E53	P1	Q211	A3	R263	F8	R558	E5	R5F51	A4	R9F55	B1
8C155	A10	C382	J8	C568	G2	C804	O4	CF57	A9	J9E54	P1	Q212	A3	R264	F8	R559	F2	R5F52	A4	R9F56	B1
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8C163	A10	C390	J8	C576	G2	C812	O4	CF65	A9	J9E62	P1	Q220	A3	R272	F8	R567	F2	R5F60	A4	R9F64	B1
8C164	A10	C391	J8	C577	G2	C813	O4	CF66	A9	J9E63	P1	Q221	A3	R273	F8	R568	E5	R5F61	A4	R9F65	B1
8C165	A10	C392	J8	C578	G2	C814	O4	CF67	A9	J9E64	P1	Q222	A3	R274	F8	R569	F2	R5F62	A4	R9F66	B1
8C166	A10	C393	J8	C579	G2	C815	O4	CF68	A9	J9E65	P1	Q223	A3	R275	F8	R570	E5	R5F63	A4	R9F67	B1
8C167	A10	C394	J8	C580	G2	C816	O4	CF69	A9	J9E66	P1	Q224	A3	R276	F8	R571	F2	R5F64	A4	R9F68	B1
8C168	A10	C395	J8	C581	G2	C817	O4	CF70	A9	J9E67	P1	Q225	A3	R277	F8	R572	E5	R5F65	A4	R9F69	B1
8C169	A10	C396	J8	C582	G2	C818	O4	CF71	A9	J9E68	P1	Q226	A3	R278	F8	R573	F2	R5F66	A4	R9F70	B1
8C170	A10	C397	J8	C583	G2	C819	O4	CF72	A9	J9E69	P1	Q227	A3	R279	F8	R574	E5	R5F67	A4	R9F71	B1
8C171	A10	C398	J8	C584	G2	C820	O4	CF73	A9	J9E70	P1	Q228	A3	R280	F8	R575	F2	R5F68	A4	R9F72	B1
8C172	A10	C399	J8	C585	G2	C821	O4	CF74	A9	J9E71	P1	Q229	A3	R281	F8	R576	E5	R5F69	A4	R9F73	B1
8C173	A10	C400	J8	C586	G2	C822	O4	CF75	A9	J9E72	P1	Q230	A3	R282	F8	R577	F2	R5F70	A4	R9F74	B1
8C174	A10	C401	J8	C587	G2	C823	O4	CF76	A9	J9E73											

2. NICAM P.C.Board (VS-J701/718EO-D,EO-DN)



3. KEY P.C.Board



SECTION 4 MECHANISM

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MACHANISM TROUBLESHOOTING GUIDE

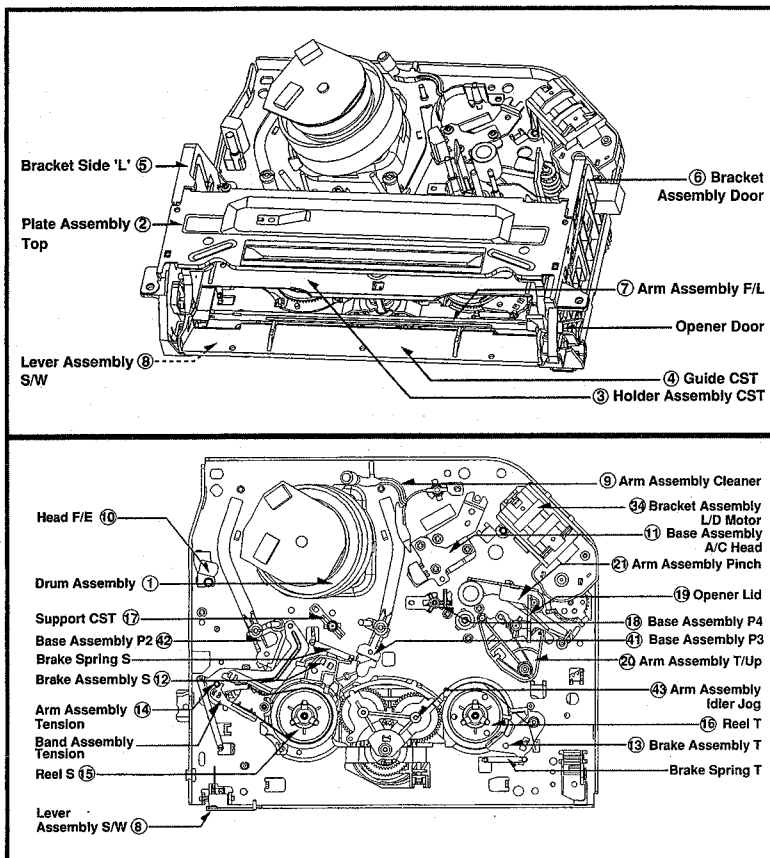
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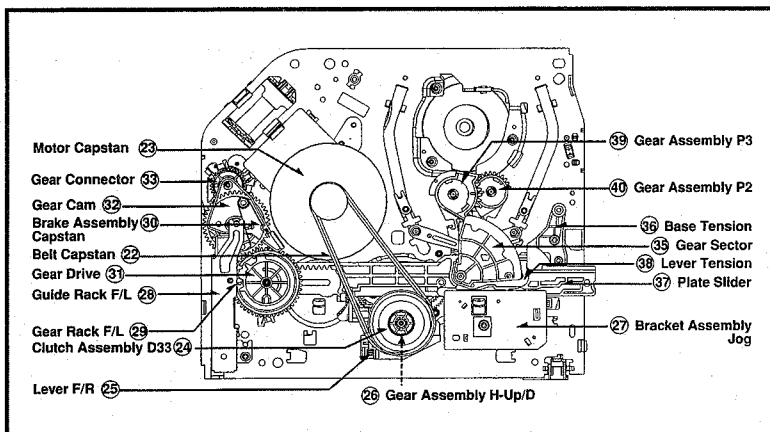
DECK MECHANISM PARTS LOCATIONS

• Top View



Pracedure		Part	Fixing Type	Figure
Starting No.				
2	1	Drum Assembly	3 Screws , Cap FPC	A-1
	2	Plate Assembly Top	Two Hooks	A-2
2,3,4	3	Holder Assembly CST	Chassis Hole	A-2
	4	Guide CST	2 Hooks	A-2
2,3,4	5	Bracket Side (L)	1 Screw	A-2
	6	Bracket Assembly Door	1 Screw	A-2
2,3,4,5,6	7	Arm Assembly F/L	Chassis Hole	A-2
	8	Lever Assembly S/W	Chassis Hole	A-2
2,3,4,5	9	Arm Assembly Cleaner	Chassis Embossing	A-3
	10	Head F/E	2 Hooks	A-3
2,3	11	Base Assembly A/C Head	1 Screw	A-3
	12	Brake Assembly S	Chassis Hole	A-4
2,3,12	13	Brake Assembly T	Chassis Hole	A-4
	14	Arm Assembly Tension	Chassis Hole	A-4
2,3,12,14	15	Reel S	Chassis Shaft	A-4
	16	Reel T	Chassis Shaft	A-4
2,3,13	17	Support CST	Chassis Embossing	A-5
	18	Base Assembly P4	Chassis Embossing	A-5
19	19	Opener Lid	Chassis Embossing	A-5
	20	Arm Assembly T/Up	Chassis Embossing	A-5
19	21	Arm Assembly Pinch	Chassis Shaft	A-5

• Bottom View



NOTE : When reassembly perform the procedure in the reverse order.

- 1) When reassembling, confirm Mechanism and Mode Switch Alignment Position (Pefer to Page 4-14)
- 2) When disassembling, the Parts for Starting No. Should be removed first.

Pracedure		Part	Fixing Type	Figure
Starting No.				
22	22	Belt Capstan	3 Screws	A-6
	23	Motor Capstan	1 Washer	A-6
22,24	24	Clutch Assembly D33	1 Hook	A-6
	25	Lever F/R	2 Washers	A-6
22,24	26	Gear Assembly H-Up/D	1 Screw	A-7
	27	Bracket Assembly Jog	1Screw	A-7
28	28	Guide Rack F/L	Chassis Shaft	A-7
	29	Gear Rack F/L	1 Washer	A-7
28, 29	30	Brake Assembly Capstan	Chassis Shaft	A-7
	31	Gear Drive	1 Washer	A-8
28, 29, 30	32	Gear Cam	Chassis Shaft	A-8
	33	Gear Connector	Chassis Shaft	A-8
28, 29, 30, 31	34	Bracket Assembly L/D Motor	3 Hooks	A-8
	35	Gear Sector	3 Washers	A-9
22, 24, 25, 27	36	BaseTension	1 Screw	A-9
	37	Plate Slider	Chassis Shaft	A-9
28, 29, 31, 35	38	Lever Tension	Chassis Hole	A-9
	39	Gear Assembly P3	2 Hooks	A-10
35, 39	40	Gear Assembly P2	2 Hooks	A-10
	41	Base Assembly P3	Chassis Hole	A-10
35, 39, 40, 41	42	Base Assembly P2	Chassis Hole	A-10
	43	Arm Assembly Idler Jog	1 Hook	A-10

DECK MECHANISM DISASSEMBLY

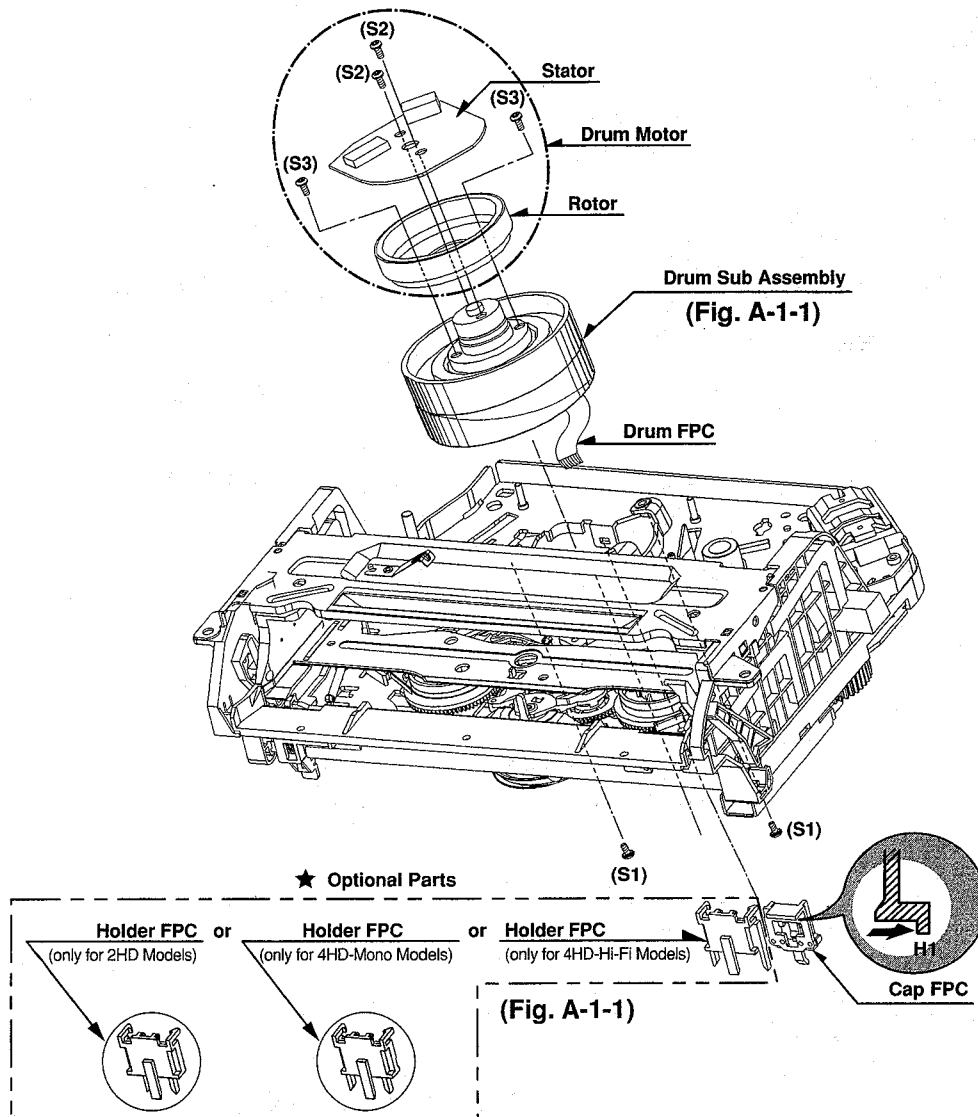


Fig. A-1

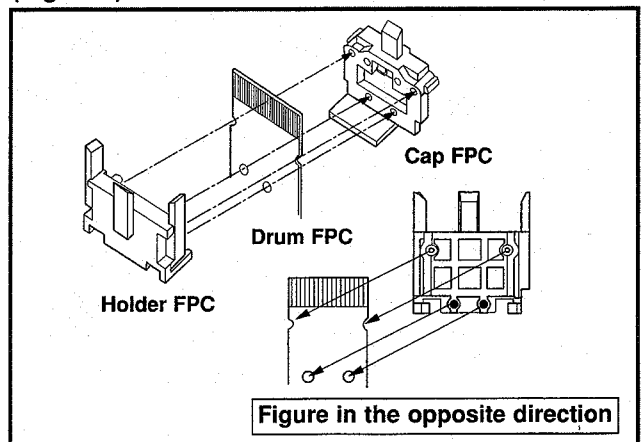
1. Drum Assembly (Fig. A-1-1)

- 1) Unhook the (H1) on the back side of the Chassis and separate the Cap FPC.
- 2) Remove three Screws (S1) and lift up the Drum Assembly.
- 3) Remove two Screws (S2) and Separate the Stator of Drum Motor.
- 4) Remove two Screws (S3) and Separate the Rotor of Drum Motor from the Drum Sub Assembly.

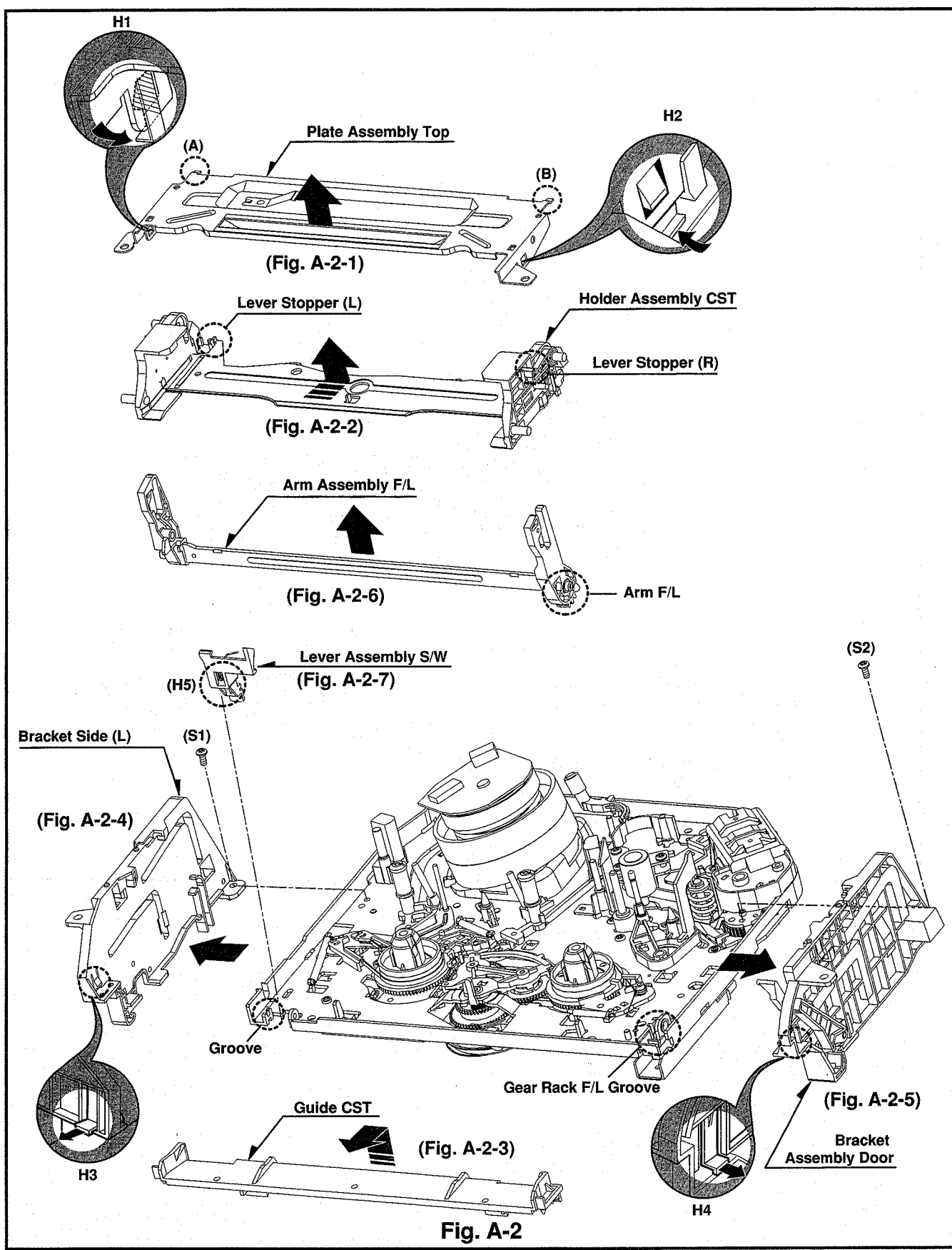
NOTE

- (1) When reassembling Cap FPC, two Holes of Drum FPC are inserted to the two Bosses of Holder FPC correctly. (Refer to Fig. B-1)

(Fig. B-1)



DECK MECHANISM DISASSEMBLY



DECK MECHANISM DISASSEMBLY

2. Plate Assembly Top (Fig. A-2-1)

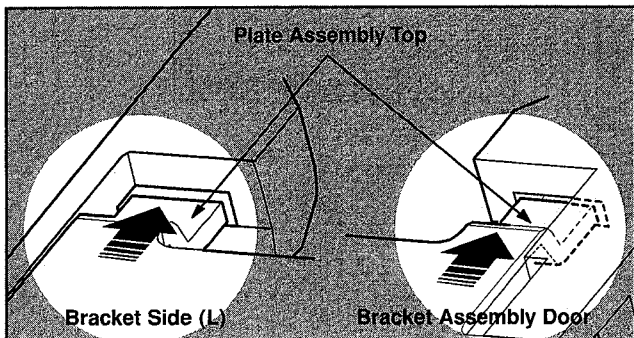
- 1) Unhook the (H1) and separate the Left Side.
- 2) Unhook the (H2) and lift up the Plate Assembly Top.

NOTE

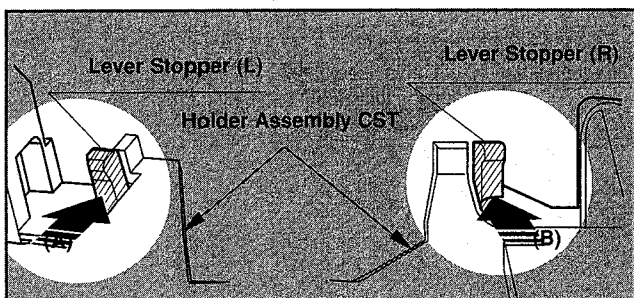
- (1) When reassembling, confirm (A),(B) Part of the Plate Assembly Top is inserted to the (L),(R) Grooves of the Bracket Side(L) and Bracket Assembly Door.

3. Holder Assembly CST (Fig.A-2-2)

- 1) Push the Lever Stopper(L),(R) in the direction of the arrows (A), (B), and move the Holder Assembly CST.

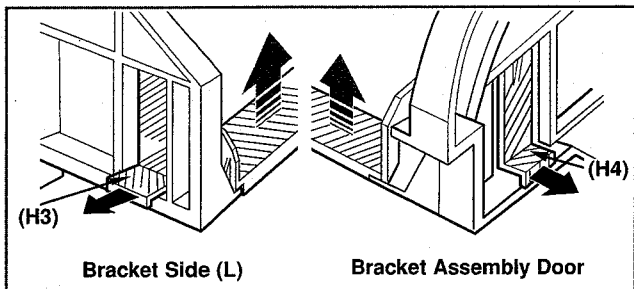


- 2) Push the Bracket Assembly Door to the right and lift up the Holder Assembly CST along the Guide Groove of the Bracket Assembly Door.



4. Guide CST (Fig.A-2-3)

- 1) Push two Hooks(H3),(H4) in the direction of the arrow and separate the left side.
- 2) Unhook (H5),(H6) as above No.1) and disassemble the Guide CST in the direction of the arrow.



5. Bracket Side(L) (Fig. A-2-4)/ Bracket Assembly Door (Fig.A-2-5)

- 1) Remove the Screw (S1) and disassemble the Bracket Side(L) in the front.

- 2) Remove the Screw (S2) and disassemble the Bracket Assembly Door in the front.

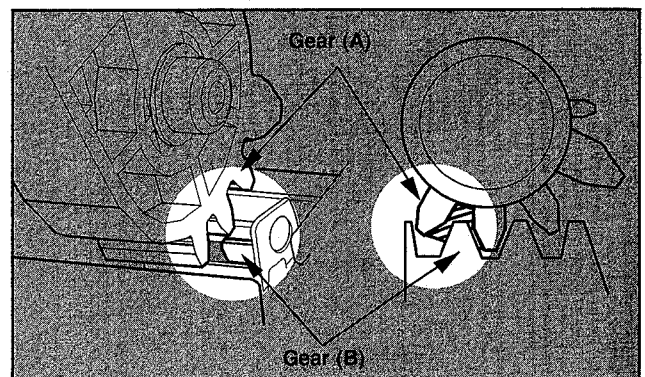
6. Arm Assembly F/L (Fig. A-2-6)

- 1) Push the Arm Assembly F/L to the left and lift up it.

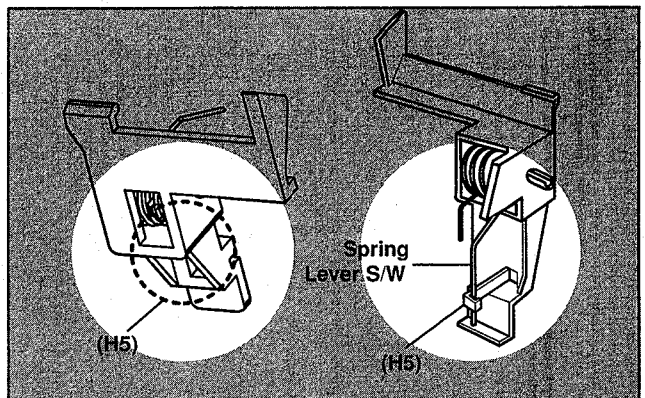
NOTE

- (1) When reassembling, confirm that the Gear(A) of the Arm F/L and the Gear(B) of the Gear Rack F/L are assembled as below.

7. Lever Assembly S/W (Fig. A-2-7)

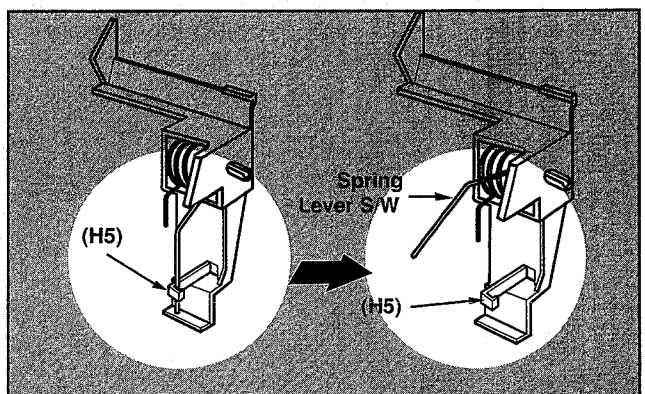


- 1) Hook the Spring Lever S/W on (H5).
- 2) Lift up the left side of the Lever S/W from the Groove(A) of the Chassis.



NOTE

- (1) Place the Spring Lever S/W of the above (No.1) as original position.



DECK MECHANISM DISASSEMBLY

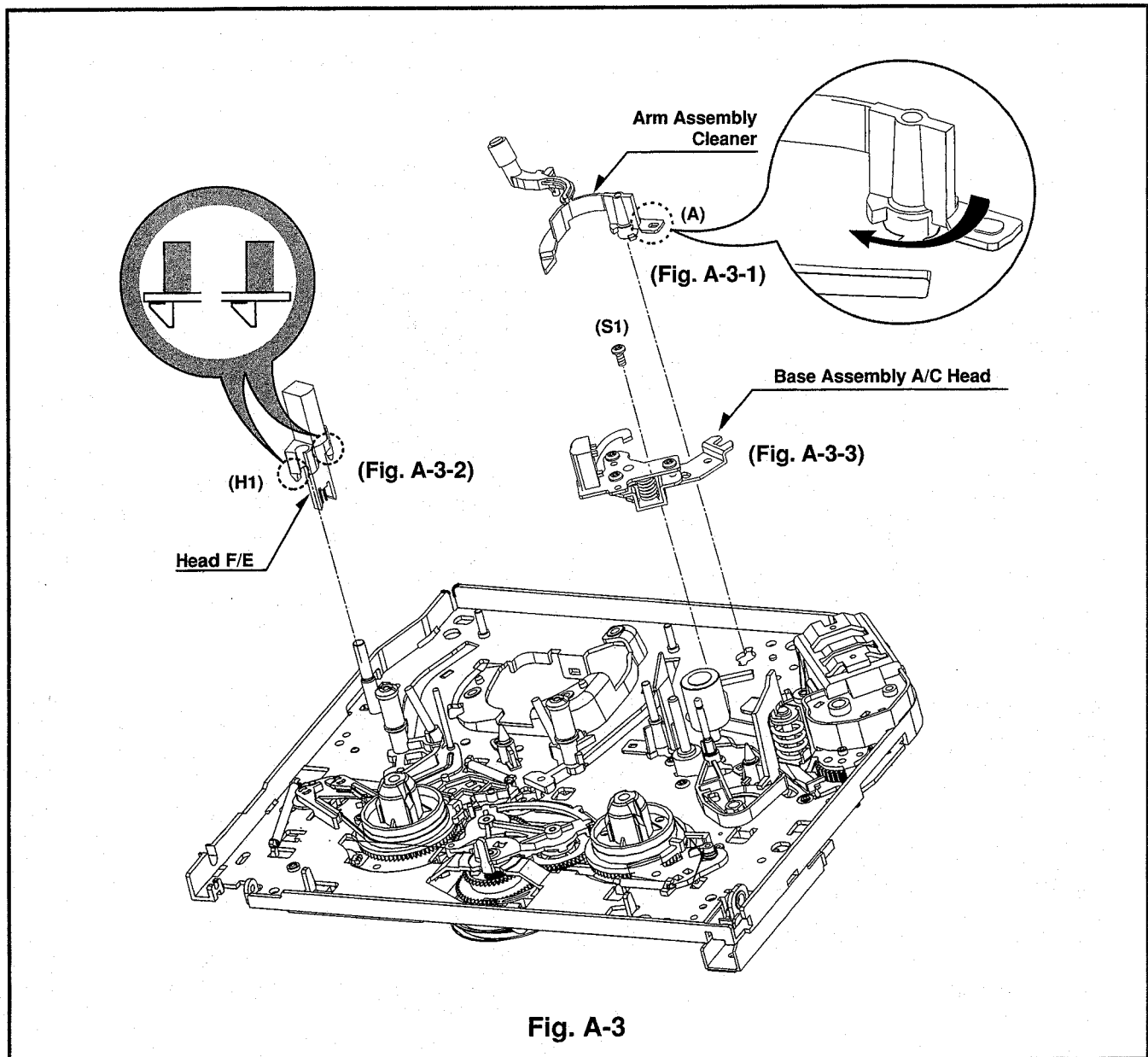


Fig. A-3

8. Arm Assembly Cleaner(Fig. A-3-1)

- 1) Break away the (A) part shown above Fig. A-3-1 from the Embossing of the Chassis in the clockwise direction and lift up the Arm Assembly Cleaner.

9. Head F/E (Fig. A-3-2)

- 1) Unhook the two Hooks (H1) on the back side of the Chassis and lift up the Head F/E.

10. Base Assembly A/C Head (Fig. A-3-3)

- 1) Remove the Screw (S1) and lift up the Base Assembly A/C Head.

DECK MECHANISM DISASSEMBLY

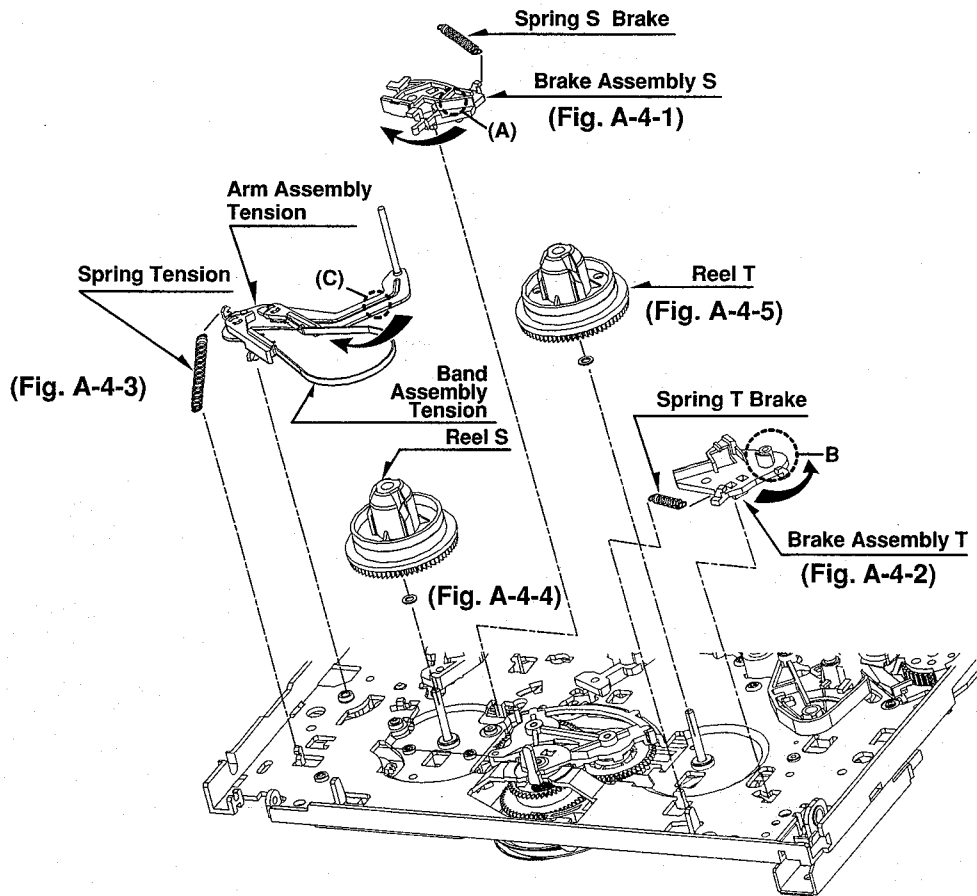


Fig. A-4

11. Brake Assembly S (Fig. A-4-1)

- 1) Remove the Spring S Brake.
- 2) Hold the (A) part shown above Fig. A-4-1 and turn to the clockwise direction, and then lift up the Brake Assembly S.

NOTE

- (1) When reassembling, be careful not to change the Spring with below No.12.(Refer to Fig. B-2).

12. Brake Assembly T (Fig. A-4-2)

- 1) Remove the Spring T Brake.
- 2) Hold the (B) part shown above Fig. A-4-2 and turn to the counterclockwise direction, and then lift up the Brake Assembly T.

NOTE

- (1) When reassembling, be careful not to change the Spring with above No.11.(Refer to Fig. B-2).

(Difference for Springs)

(Fig. B-2)

	Spring T Brake Color (Black)
	Spring S Brake
	Spring Tension

13. Arm Assembly Tension (Fig. A-4-3)

- 1) Remove the Spring Tension.
- 2) Hold the (C) part shown above Fig. A-4-3 and turn to the clockwise direction, and then lift up the Arm Assembly Tension.

NOTE

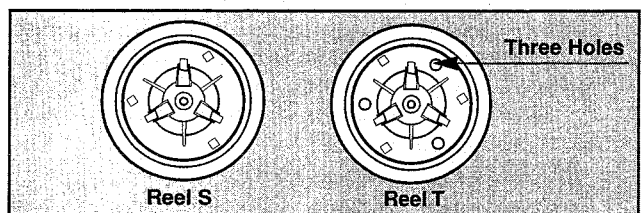
- (1) When reassembling, be careful not to change the Spring with above No.11,12.(Refer to Fig. B-2).

14. Reel S (Fig. A-4-4) & Reel T (Fig. A-4-5)

- 1) Lift up the Reel S and Reel T.

NOTE

- (1) When reassembling, be careful not to change the Reel S and Reel T each other.



- (2) Confirm two Slide Washers under the Reel S and Reel T.

DECK MECHANISM DISASSEMBLY

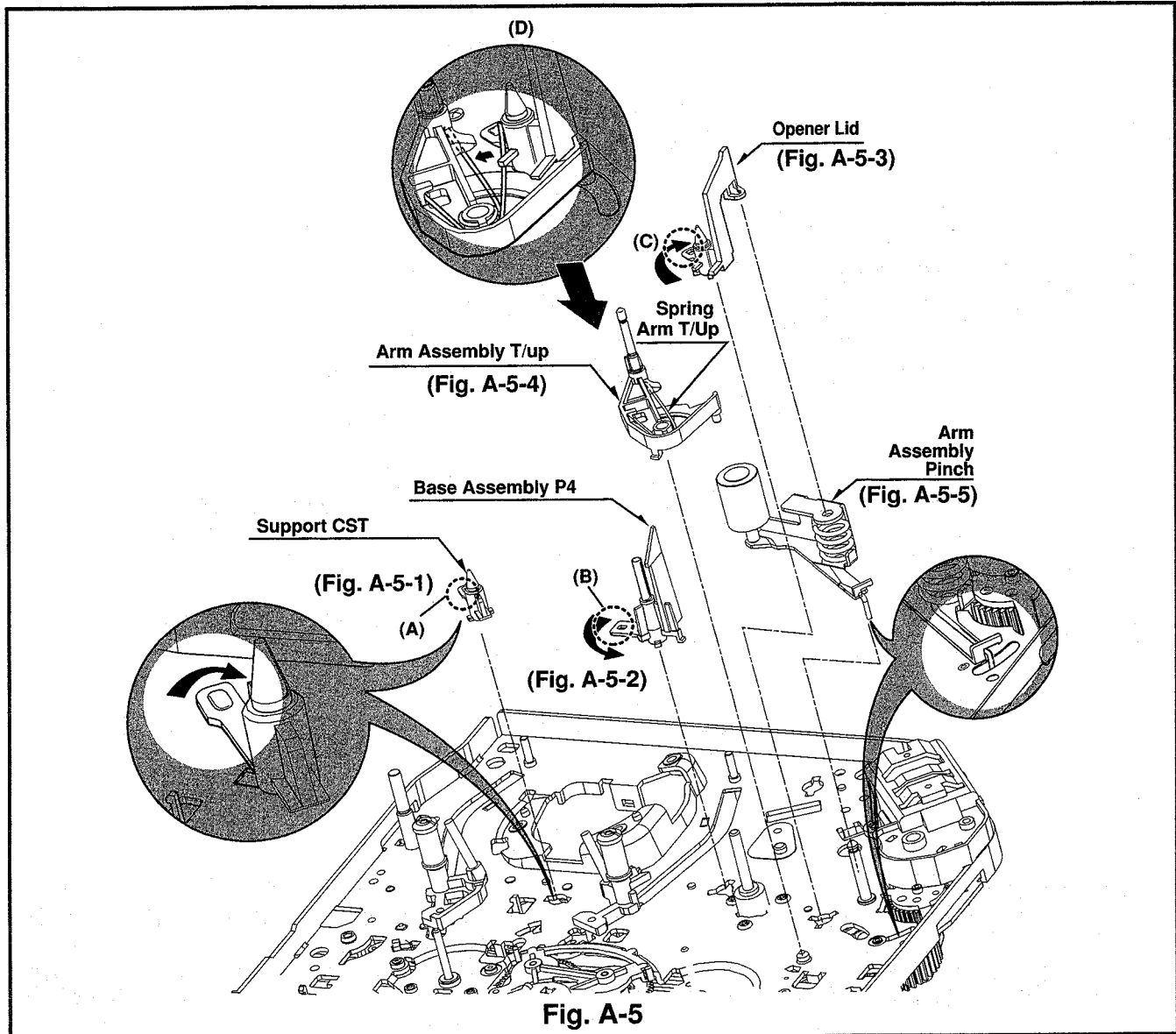


Fig. A-5

15. Support CST (Fig. A-5-1)

- 1) Break away the (A) part shown above Fig. A-5-1 from the Embossing of the Chassis in the clockwise direction, and lift up the Support CST.

16. Base Assembly P4 (Fig. A-5-2)

- 1) Break away the (B) part shown above Fig. A-5-2 from the Embossing of the Chassis in the counterclockwise direction and lift up the Base Assembly P4.

17. Opener Lid (Fig. A-5-3)

- 1) Hook the Spring Arm T/up on the Split digged under the Arm Assembly T/up. (Refer to Fig. A-5-4(D)).
- 2) Break away the (C) Part of the Opener Lid from the Embossing of the Chassis in the Clockwise direction and lift up the Opener Lid.

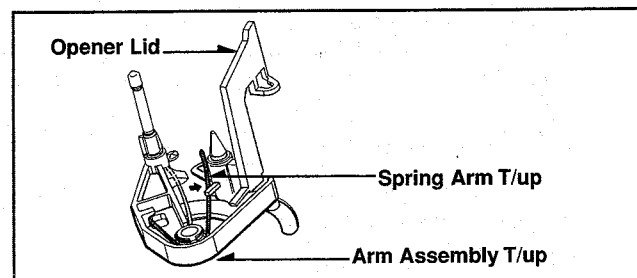
18. Arm Assembly T/up (Fig. A-5-4)

- 1) Confirm that the Spring Arm T/up is placed as above (No.17.1).

- 2) Lift up the Arm Assembly T/up.

NOTE

- (1) When reassembling, unhook the Spring Arm T/up Shown above (No.17.1) to the original position.



19. Arm Assembly Pinch (Fig. A-5-5)

- 1) Lift up the Arm Assembly Pinch.

DECK MECHANISM DISASSEMBLY

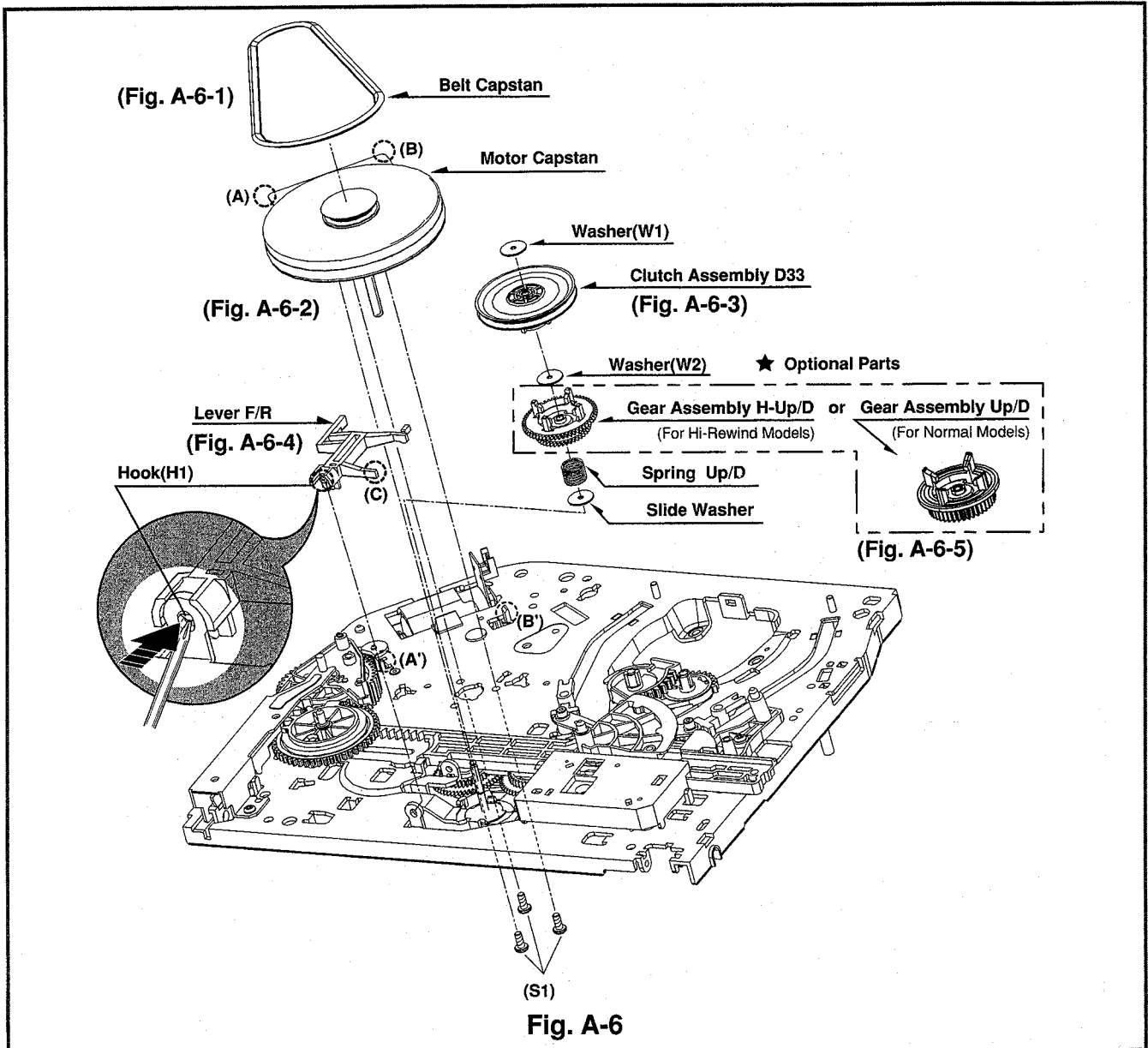


Fig. A-6

20. Belt Capstan (Fig. A-6-1)/ Motor Capstan (Fig. A-6-2)

- 1) Remove the Belt Capstan.
- 2) Remove three Screws(S1) on the back side of the Chassis and lift up the Motor Capstan.

NOTE

- (1) When reassembling, Confirm the (A), (B) parts of Motor Capstan is located to the (A'), (B') of the Chassis.

21. Clutch Assembly D33 (Fig. A-6-3)

- 1) Remove the Washer(W1) and lift up the Clutch Assembly D33.

22. Lever F/R (Fig. A-6-4)

- 1) Unhook the (H1) shown above Fig. A-6-4 and lift up the Lever F/R.

NOTE

- (1) When reassembling, move the (C) part of the Lever F/R up and down, then confirm if it is returned to original position.

23. Gear Assembly H-Up/D or Gear Assembly Up/D (Fig. A-6-5)

- 1) Remove the Washer(W2) and lift up the Gear Assembly H-up/D.
- 2) Remove the Spring Up/D.
- 3) Remove the Slide Washer.

NOTE

- (1) Gear Assembly H-Up/D is for Hi-Rewind Models.
- (2) Gear Assembly Up/D is for Normal Models except Hi-Rewind Models.

DECK MECHANISM DISASSEMBLY

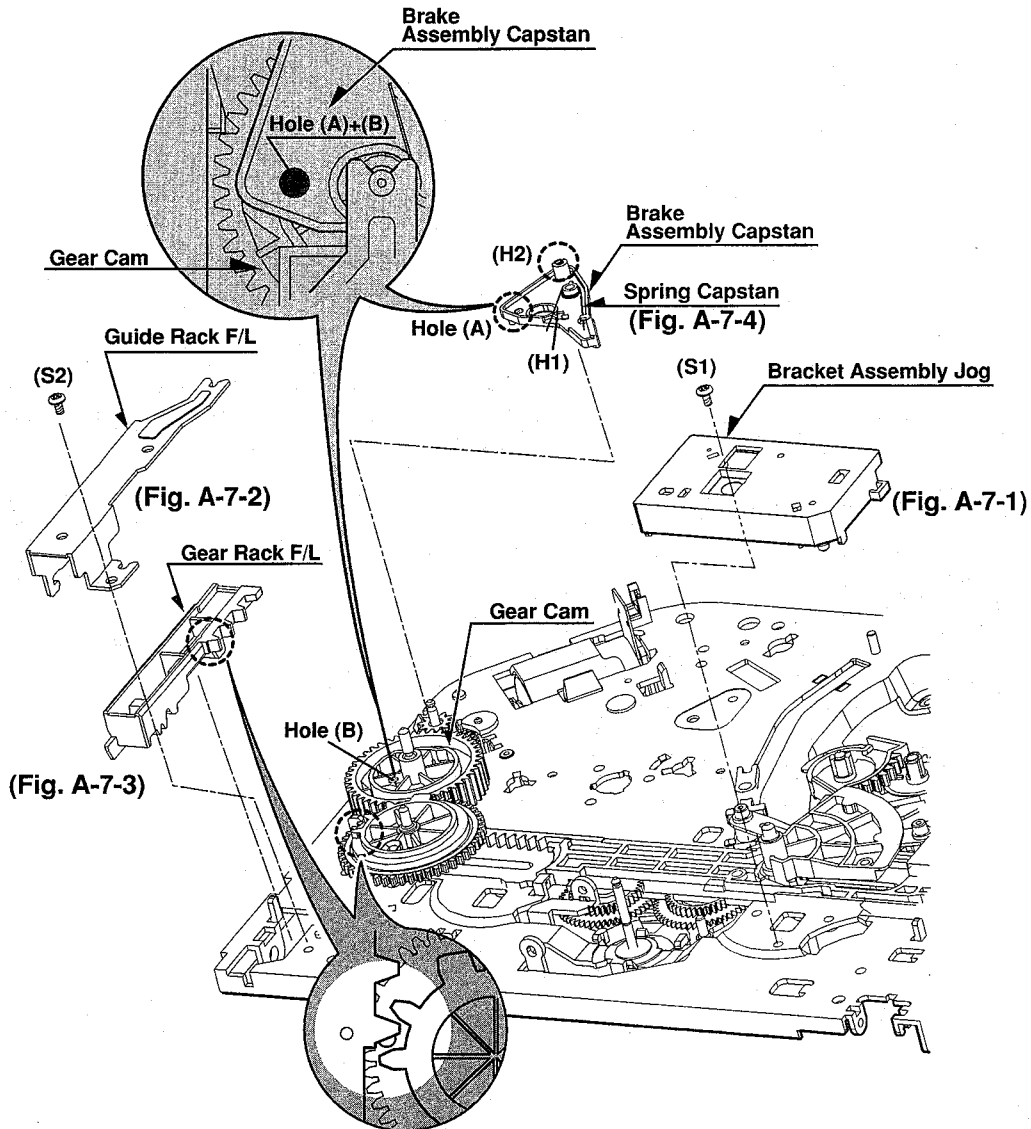


Fig. A-7

24. Bracket Assembly Jog (Fig. A-7-1)

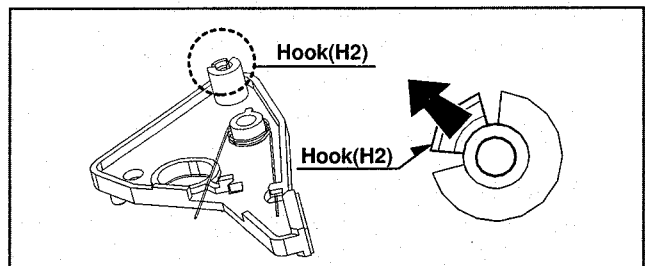
- 1) Remove the Screw(S1) and lift up the Bracket Assembly Jog.

25. Guide Rack F/L (Fig. A-7-2)/ Gear Rack F/L (Fig. A-7-3)

- 1) Remove the Screw(S2) and lift up the Guide Rack F/L.
- 2) Lift up the Gear Rack F/L.

26. Brake Assembly Capstan (Fig. A-7-4)

- 1) Hook the Spring Capstan on the Hook(H1).
- 2) Unhook the Hook(H2) and lift up the Brake Assembly Capstan.(Refer to Fig. to the right)



NOTE

- (1) When reassembling, confirm that the Hole(A) of the Brake Assembly Capstan is aligned to the Hole(B) of the Gear Cam.
(Refer to above Fig. A-7-4).

DECK MECHANISM DISASSEMBLY

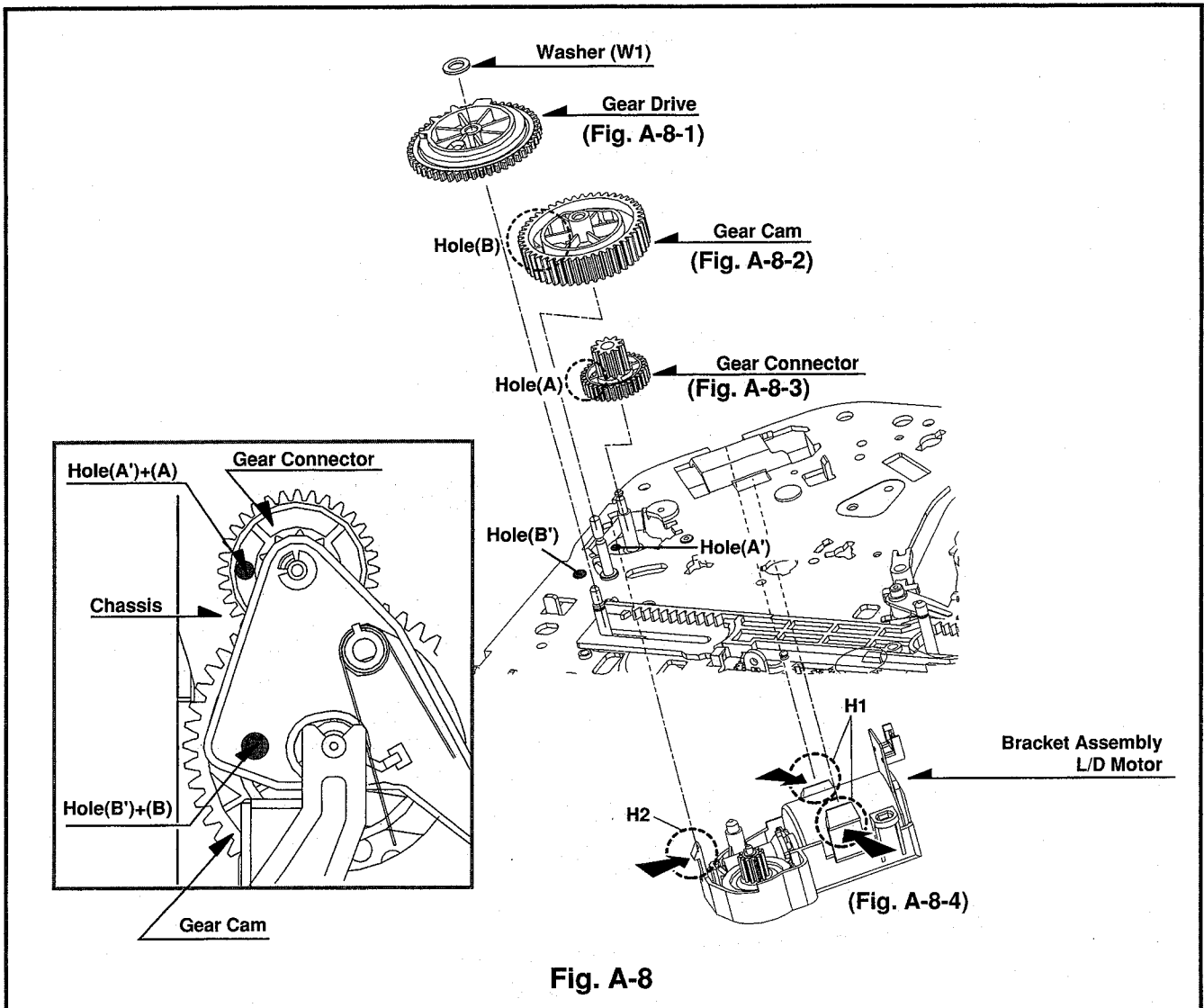


Fig. A-8

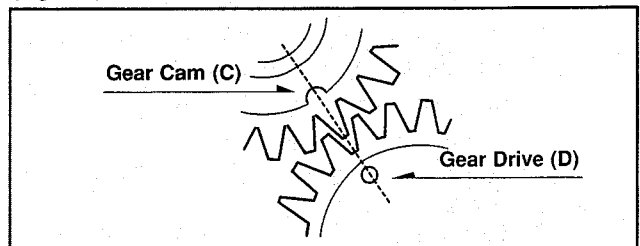
27. Gear Drive (Fig. A-8-1)/ Gear Cam (Fig. A-8-2)/ Gear Connector (Fig. A-8-3)

- 1) Remove the Washer(W1) and lift up the Gear Drive.
- 2) Lift up the Gear Cam.
- 3) Lift up the Gear Connector.

NOTE

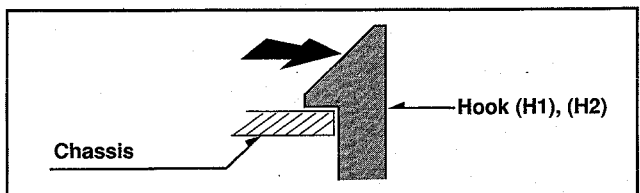
- (1) When reassembling, confirm that the Hole (A) of the Gear Connector is aligned to the Hole (A') of the Chassis (Fig. A-8-3).
- (2) When reassembling, confirm that the Hole (B) of the Gear Cam is aligned to the Hole (B') of the Chassis (Fig. A-8-2).
- (3) When reassembling, confirm that the (C) part of the Gear Cam is aligned to the (D) part of the Gear Drive as shown Fig. B-3

(Fig. B-3)



28. Bracket Assembly L/D Motor (Fig. A-8-4)

- 1) Unhook the three Hooks(H1),(H2) and push down the Bracket Assembly L/D Motor.



DECK MECHANISM DISASSEMBLY

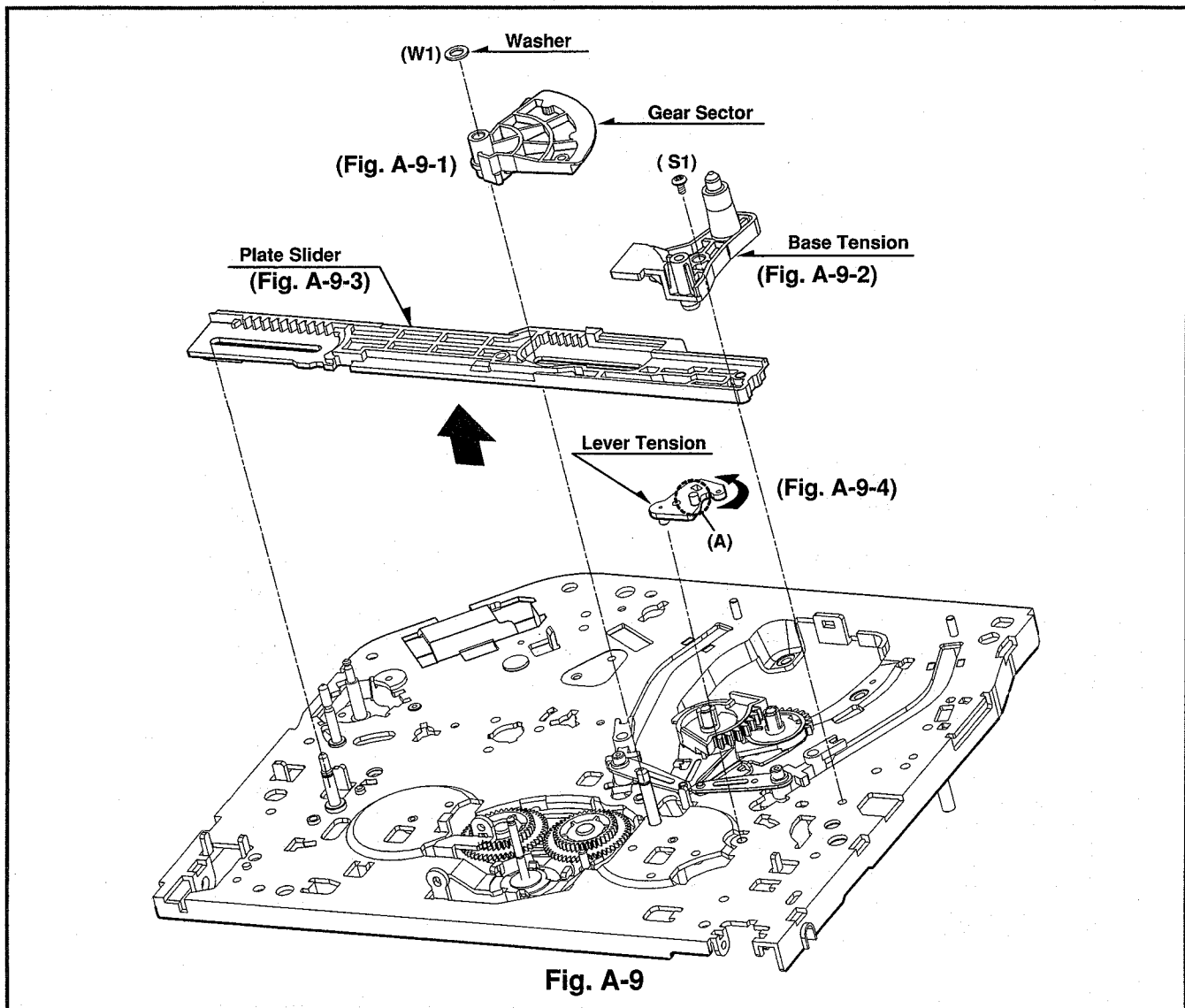


Fig. A-9

29. Gear Sector (Fig. A-9-1)

- 1) Remove the Washer(W1) and lift up the Gear Sector.

30. Base Tension (Fig. A-9-2)/ Plate Slider (Fig. A-9-3)/ Lever Tension (Fig. A-9-4)

- 1) Remove the Screw(S1) and lift up the Base Tension.
- 2) Lift up the Plate Slider.
- 3) Hold the (A) Part of the Lever Tension and turn to the counterclockwise direction, and then lift up the Lever Tension.

NOTE

- (1) When reassembling, turn the Lever Tension to the clockwise direction in maximum.

DECK MECHANISM DISASSEMBLY

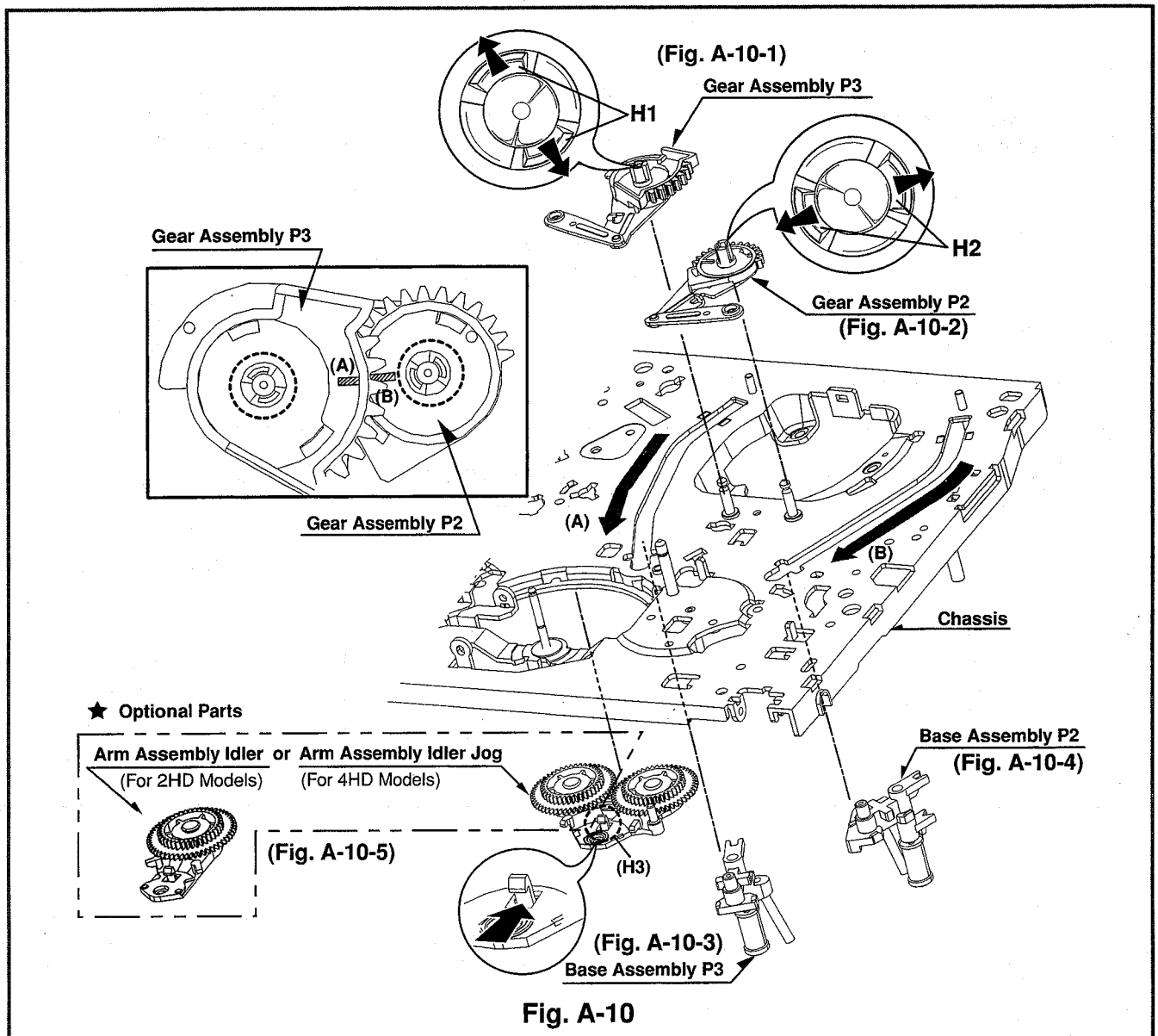


Fig. A-10

31. Gear Assembly P3 (Fig. A-10-1)/ Gear Assembly P2 (Fig. A-10-2)

- 1) Unhook the two Hooks(H1) and lift up the Gear Assembly P3.
- 2) Unhook the two Hooks(H2) and lift up the Gear Assembly P2.

32. Base Assembly P3 (Fig. A-10-3)/ Base Assembly P2 (Fig. A-10-4)

- 1) Move the Base Assembly P3 in the direction of the arrow of the Chassis Hole(A) and push down the Base Assembly P3.
- 2) Move the Base Assembly P2 in the direction of the arrow of the Chassis Hole(B) and push down the Base Assembly P2.

33. Arm Assembly Idler Jog or Arm Assembly Idler (Fig. A-10-5)

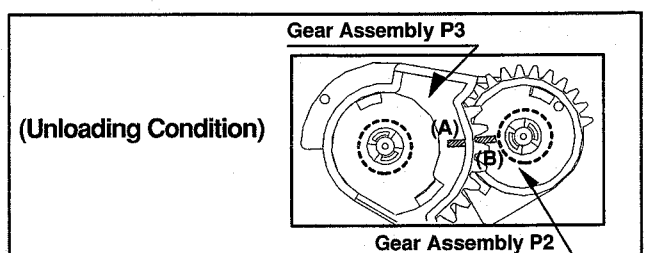
- 1) Unhook the Hook(H3) and push down the Arm Assembly Idler Jog.

NOTE

- 1) Arm Assembly Idler Jog is for 4HD Models.
- 2) Arm Assembly Idler is for 2HD Models.

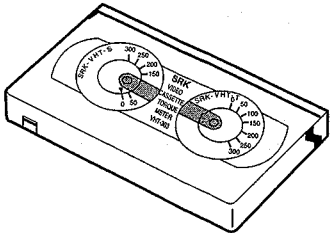
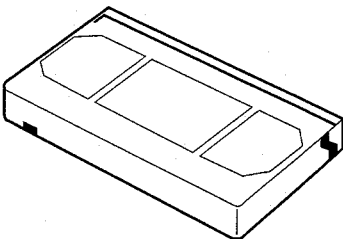
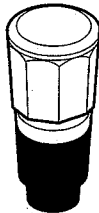
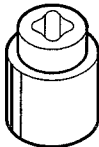
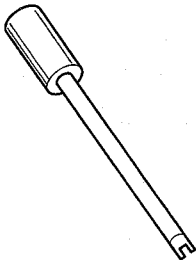
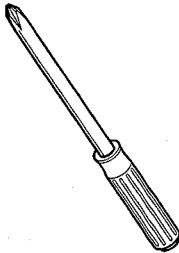
NOTE

- 1) When reassembling, confirm that the (A) Part of the Gear Assembly P3 is aligned to the (B) Part of the Gear Assembly P2 as shown below.



DECK MECHANISM ADJUSTMENT

• Tools and Fixfures for Service

1. Cassette Torque meter SRK-VHT-303(Not SVC part) Parts No: D00-D006 	2. Alignment tape Parts No NTSC: DTN-001 PAL:DTN-0002 	3. Torque gauge 600g.Cm ATG Parts No:D00-D002 
4. Torque gauge adaptor Parts No:D09-R001 	5. Post height adjusting driver Parts No:DTL-0005 	6. + Type driver (ø 5) 

DECK MECHANISM ADJUSTMENT

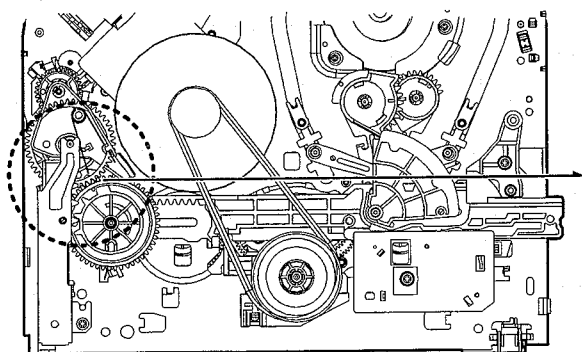
1. Mechanism Alignment Position Check

Purpose: To determine if the Mechanism is in the correct position, when a Tape is ejected.

Test Equipment/ Fixture	Test Conditions (Mechanism Condition)	Check Point
• Blank tape	• Eject Mode (with Cassette ejected)	• Mechanism and Mode Switch Position

- 1) Turn the Power S/W on and eject the Cassette by pressing the Eject Button.
- 2) Remove the Top Cover and Plate Assembly Top, visually check if the Gear Cam Hole is aligned with the Chassis Hole as below Fig. C-2.
- 3) IF not, rotate the Shaft of the Loading Motor to either Clockwise or Counterclockwise until the Alignment is as below Fig. C-2.
- 4) Remove the Screw which fixes the Deck Mechanism and Main Frame and confirm if the Gear Cam is aligned with the Gear Drive as below Fig. C-1(A).
- 5) Confirm if the Mode S/W on the Main P.C.Board is aligned as below Fig. C-1(B).
- 6) Remount the Deck Mechanism on the Main P.C.Board and check each operation.

CHECK DIAGRAM



BOTTOM VIEW

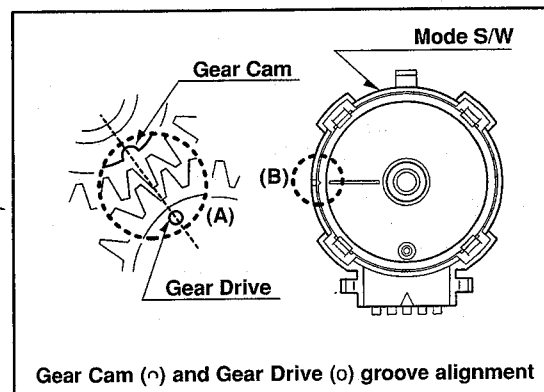
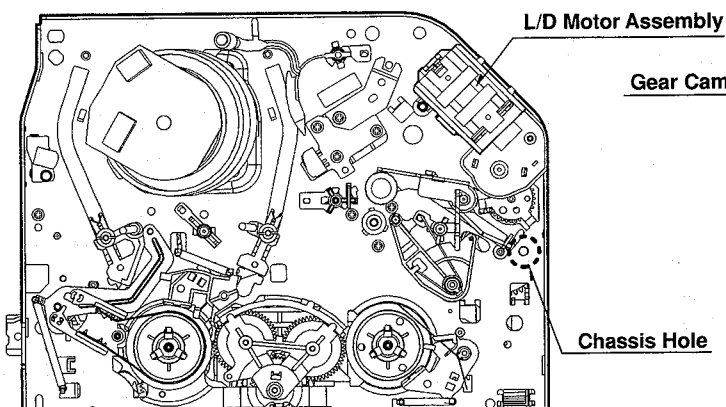


Fig. C-1



TOP VIEW

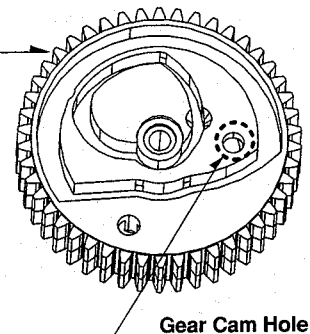


Fig. C-2

DECK MECHANISM ADJUSTMENT

2. Preparation for Adjustment (To set the Deck Mechanism to the Loading state without inserting a Cassette Tape).

- 1) Unplug the Power Cord from the AC Outlet.
- 2) Disassemble the Top Cover and Plate Assembly Top.
- 3) Plug the Power Cord into the AC Outlet.
- 4) Turn the Power SW on and push the Lever Stopper (L),(R) of the Holder Assembly CST to the back for Loading the Cassette without

Tape.

Cover the Holes of the End Sensors at the both sides of the Bracket Side(L) and Bracket Assembly Door to prevent a light leak. Then The Deck Mechanism drives to the Stop Mode.

In this case, The Deck Mechanism can accept inputs of each mode, however the Rewind and Review Operation can not be performed for more than a few seconds because the Take-up Reel Table is in the Stop State and can not be detected the Reel Pulses.

3. Checking Torque

Purpose: To insure smooth Transport of the Tape during each Mode of Operation.
If the Tape Transport is abnormal, then check the Torque as indicated by the chart below.

Test Equipment/ Fixture		Test Conditions (Mechanism Condition)	Checking Method	
• Torque Gauge(600g/cm ATG) • Torque Gauge Adaptor • Cassette Torque Meter SRK-VHT-303		• Play (FF) or Review (REW) Mode	• Perform each Deck Mechanism Mode without inserting a Cassette Tape(Refer to above No.2 Preparation for Adjustment). • Read the Measurement of the Take-up or Supply Reels on the Cassette Torque Meter(Fig. C-3-2). • Attach the Torque Gauge Adaptor to the Torque Gauge and then read the Value of it(Fig. C-3-1).	
Item	Mode	Test Equipment	Measurement Reel	Measurement Values
Fast Forward Torque	Fast Forward	Cassette Torque Gauge	Take-Up Reel	More than 400g/cm
Rewind Torque	Rewind	Cassette Torque Gauge	Supply Reel	More than 400g/cm
Play Take-Up Torque	Play	Cassette Torque Meter	Take-Up Reel	75~115g/cm
Review Torque	Review	Cassette Torque Meter	Supply Reel	130~200g/m

NOTE:

The Values are measured by using a Torque Gauge and Torque Gauge Adaptor with the Torque Gauge affixed.

• Cassette Torque Meter (SRK-VHT-303)

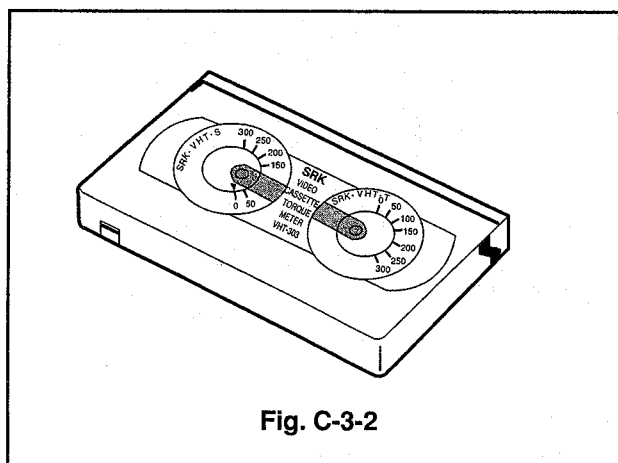


Fig. C-3-2

NOTE:

The Torque reading to measure occurs when the Tape abruptly changes direction from Fast Forward of Rewind Mode, when quick bracking is applied to both Reels.

• Torque Gauge (600g.cm ATG)

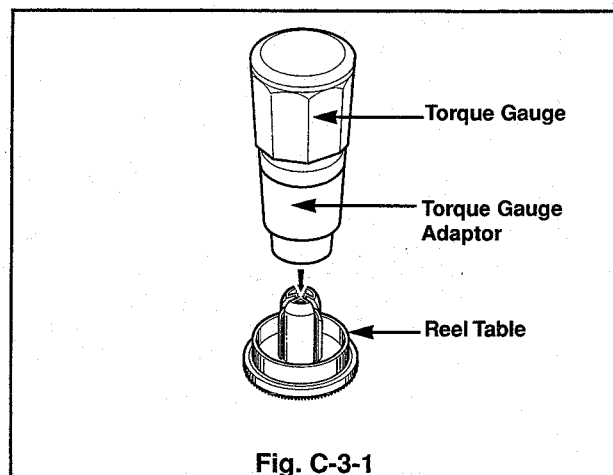


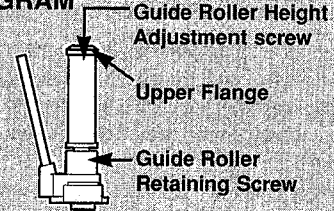
Fig. C-3-1

DECK MECHANISM ADJUSTMENT

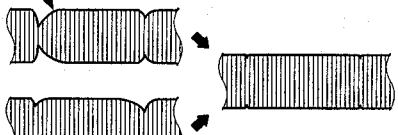
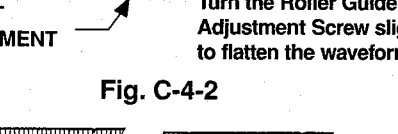
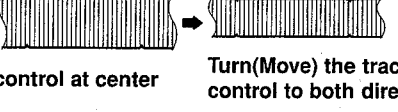
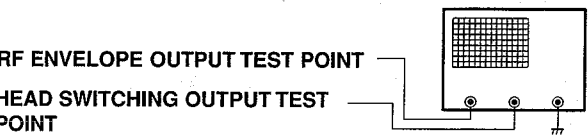
4. Guide Roller Height Adjustment

Purpose: To regulate the Height of the Tape so that the Bottom of the Tape runs along the Tape Guide Line on the Lower Drum.

4-1. Preliminary Adjustment

Test Equipment/ Fixture	Test Conditions (Mechanism Condition)	Adjustment Point
Post Height Adjusting Driver	Play or Review Mode	Guide Roller Height Adjustment screws on the Supply and Take-Up Guide Rollers.
Adjustment Procedure 1) Confirm if the Tape runs along the Tape Guide Line of the Lower Drum. 2) If the Tape runs the Bottom of the Guide Line, turn the Guide Roller Height Adjustment Screw to Clockwise direction. 3) If it runs the Top, turn to Counterclockwise direction. 4) Adjust the Height of the Guide Roller to be guided to the Guide Line of the Lower Drum from the Starting and Ending Point of the Drum.		ADJUSTMENT DIAGRAM  Fig. C-4-1

4-2. Precise Adjustment

Test Equipment/Fixture	Test Equipment Connection Points	Test Conditions VCR(VCP) State	Adjustment Point
- Oscilloscope - Alignment Tape - Post Height Adjusting Driver	- CH-1:PB RF Envelope - CH-2:NTSC: SW 30Hz PAL: SW 25Hz - Head Switching Output Point - RF Envelope Output Point	Play an Alignment Tape	Guide Roller Height Adjustment Screws
Adjustment Procedure 1) Play an Alignment Tape after connecting the Probe of the Oscilloscope to the RF Envelope Output Test Point and Head Switching Output Test Point. 2) Tracking Control(in PB Mode) : Center Position(When this Adjustment is performed after the Drum Assembly has been replaced, set the Tracking Control so that the RF Output is Maximum). 3) Height Adjustment Screw : Flatten the RF Waveform. (Fig. C-4-2) 4) Turn(Move) the Tracking Control(in PB Mode) Clockwise and Counterclockwise.(Fig. C-4-3) 5) Check that any Drop of RF Output is uniform at the Start and End of the Waveform.		Waveform Diagrams P2 POST ADJUSTMENT  P3 POST ADJUSTMENT  Fig. C-4-2 Tracking control at center  Fig. C-4-3	
NOTE If the adjustment is excessive or insufficient the tape will jam or fold.		Connection Diagram 	

DECK MECHANISM ADJUSTMENT

5. Audio/Control (A/C) Head Adjustment

Purpose: To insure that the Tape passes accurately over the Audio and Control Tracks in exact Alignment in both the Record and Playback Modes.

5-1. Preliminary Adjustment (Height and Tilt Adjustment)

Perform the Preliminary Adjustment, when there is no Audio Output Signal with the Alignment Tape.

Test Equipment/ Fixture	Test Conditions (Mechanism Condition)	Adjustment Point
• Blank Tape • Screw Driver(+) Type 5mm	• Play the blank tape	• Tilt Adjustment Screw(C) • Height Adjustment Screw(B) • Azimuth Adjustment Screw(A)

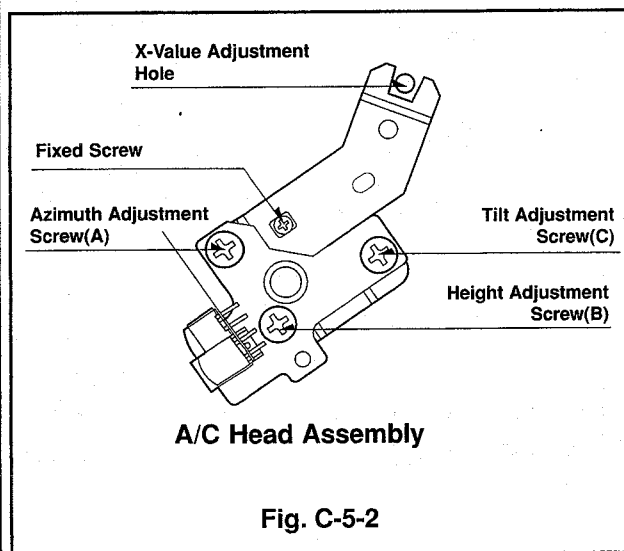
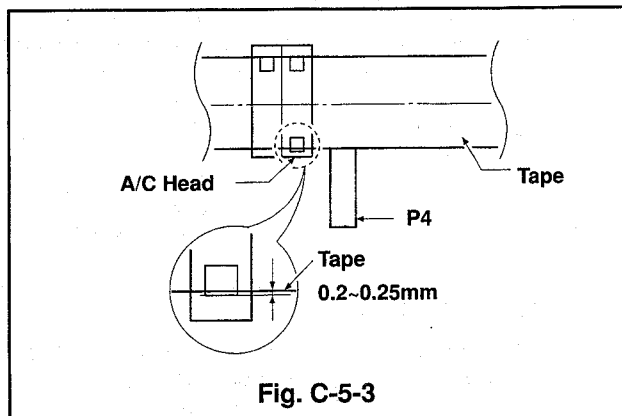
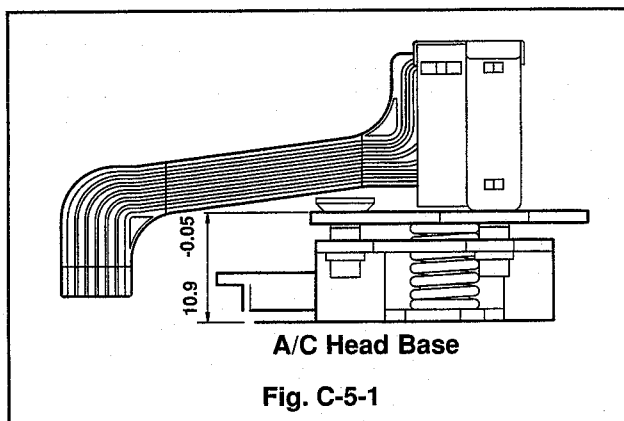
Adjustment Procedure/Diagrams

- 1) Initially adjust the Base Assembly A/C Head as shown Fig. C-5-1 by using the Height Adjustment Screw(B).
- 2) Play a Blank Tape and observe if the Tape passes accurately over the A/C Head without Tape Curling or Folding.
- 3) If Folding or Curling is occurred then adjust the Tilt Adjustment Screw(C) while the Tape is running to resemble Fig. C-5-3.

- 4) Reconfirm the Tape Path after Playback about 4~5 seconds.

NOTE

Ideal A/C head height occurs, when the tape runs between 0.2~0.25mm above the bottom edge of the A/C head core.



DECK MECHANISM ADJUSTMENT

5-2. Confirm that the Tape passes smoothly between the Take-up Guide and Pinch Roller(using a Mirror or the naked eye).

- 1) After completing Step 5-1.(Preliminary Adjustment), check that the Tape passes around the Take-up Guide and Pinch Roller without Folding or Curling at the Top or Bottom.
 - (1) If Folding or Curling is observed at the Bottom of the Take-up Guide then slowly turn the Tilt Adjustment Screw(C) in the Clockwise direction.
 - (2) If Folding or Curling is observed at the Top of it then

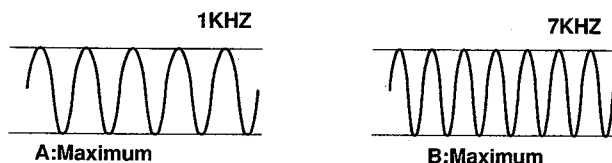
slowly turn the Tilt Adjustment Screw(C) in the Counterclockwise direction.

NOTE:

Check the RF Envelope after adjusting the A/C Head, if the RF Waveform differs from Fig. C-5-4, performs Precise Adjustment to flat the RF Waveform.

5-3. Precise Adjustment (Azimuth adjustment)

Test Equipment/ Fixture	Connection Point	Test Conditions (Mechanism Condition)	Adjustment Point
- Oscilloscope - Alignment Tape(SP) - Screw Driver(+) Type 5mm	Audio output jack	Play an Alignment Tape 1KHz, 7KHz Sections	- Azimuth Adjustment Screw(A) - Height Adjustment Screw(B)
Adjustment Procedure 1) Connect the Probe of the Oscilloscope to Audio Output Jack. 2) Alternately adjust the Azimuth Adjustment Screw(A) and the Tilt Adjustment Screw(C) for Maximum Output of the 1Khz and 7Khz segments, while maintaining the flattest Envelope differential between the two Frequencies.			



6. X-Value Adjustment

Purpose: To obtain compatibility with other VCR(VCP) Models.

Test Equipment/ Fixture	Connection Point	Test Conditions (Mechanism Condition)	Adjustment Point
- Oscilloscope - Alignment tape(SP only) - Screw Driver(+) Type 5mm	- CH-1: PB RF Envelope - CH-2: NTSC: SW 30Hz PAL: SW 25Hz - Head Switching Output Test Point - RF Envelope Output Test Point	Play an Alignment Tape	
Adjustment Procedure 1) Release the Automatic Tracking to run long enough for Tracking to complete it's Cycle. 2) Loosen the Fixed Mounting Screw and move the Base Assembly A/C Head in the direction as shown in the Diagram to find the center of the peak that allows for the maximum Waveform Envelope. This method should allow the 31um Head to be centrally located over the 58um Tape Track. 3) Tighten the Base Assembly A/C Head mounting Screw.		Adjustment Diagram	
		Connection Diagram	

DECK MECHANISM ADJUSTMENT

7. Adjustment after Replacing Drum Assembly (Video Heads)

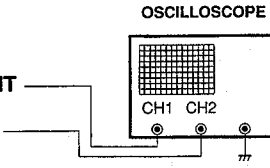
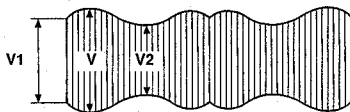
Purpose: To correct for shift in the Roller Guide and X value after replacing the Drum.			
Test Equipment/ Fixture	Connection Point	Test Conditions (Mechanism Condition)	Adjustment Points
- Oscilloscope - Alignment tapes - Blank Tape - Post Height Adjusting Driver - Screw Driver(+) Type 5mm	- CH-1: PB RF Envelope - CH-2: NTSC: SW 30Hz PAL: SW 25Hz - Head Switching Output Test Point - RF Envelope Output Test Point	- Play the blank tape - Play an alignment tape	- Guide Roller Precise Adjustment - Switching Point - Tracking Preset - X-Value
Checking/Adjustment Procedure Play a blank tape and check for tape curling or creasing around the roller guide. If there is a problem then follow the procedure 4. "Guide Roller Height" and 5. "Audio Control(A/C) Head Adjustment".		Connection Diagram  Waveform $V1/V \text{ MAX} \leq 0.7$ $V2/V \text{ MAX} \leq 0.8$ RF ENVELOPE OUTPUT 	

Fig. C-7

8. Check the Tape Travel after Reassembling Deck Assembly.

8-1.Check Audio and RF Locking Time during playback and after CUE or REV (FF/REW)

Test Equipment/ Fixture	Specification	Connection Points	Test Conditions (Mecanism Condition)
- Oscilloscope - Alignment tapes(with 6H 3kHz Color Bar Signal) - Stop Watch	- RF Locking Time: Less than 5 sec. - Audio Locking Time:Less than 10sec	- CH-1: PB RF Envelope - CH-2: Audio Output - RF Envelope Output Point - Audio Ouput Jack	Play an alignment tape (with 6H 3kHz Color Bar Signal)
Checking Procedure Play an alignment tape then change the operating mode to CUE or REV and confirm if the unit meets the above listed specifications.		NOTES: 1) CUE is fast forward mode (FF) 2) REV is the rewind mode (REW) 3) Referenced to the Play mode	

8-2.Check for tape curling or jamming

Test Equipment/ Fixture	Specification	Test Conditions (Mecanism Condition)
- T-160 Tape - T-120 Tape	Be sure there is no tape jamming or curling at the begining, middle or end of the tape.	Run the CUE, REV play mode at the beginning and the end of the tape.
Checking Procedure 1) Confirm that the tape runs smoothly around the roller guides, drum and A/C head assemblies while abruptly changing operating modes from Play to CUE or REV. This is to be checked at the begining, middle and end sections of the cassette. 2) Confirm that the tape passes over the A/C head assembly as indicated by proper audio reproduction and proper tape counter performance.		

MAINTENANCE/INSPECTION PROCEDURE

1 Check before starting repairs

The following faults can be remedied by cleaning and oiling. Check the needed lubrication and the conditions of cleanliness in the unit.

Check with the customer to find out how often the unit is used, and then determine that the unit is ready for inspection and maintenance. Check the following parts.

Phenomenon	Inspection	Replacement	
Color beats	Dirt on full-erase head	o	F/E Head
Poor S/N, no color	Dirt on video head	o	Video Head
Vertical or Horizontal jitter	Dirt on video head Dirt on tape transport system	o	
Low volume, Sound distorted	Dirt on Audio/control head	o	A/C Head
Tape does not run. Tape is slack	Dirt on pinch roller	o	Pinch Roller Belt Capstan
In Review and Unloading (off mode), the Tape is rolled up loosely.	Clutch Ass'y S27 Torque reduced	o	Clutch Assembly D33
	Cleaning Drum and transport system	Fig. C-9-3	

NOTE

If locations marked with o do not operate normally after cleaning, check for wear and replace.

See the EXPLODED VIEWS at the end of this manual as well as the above illustrations See the Greasing (Page 4-22) for the sections to be lubricated and greased.

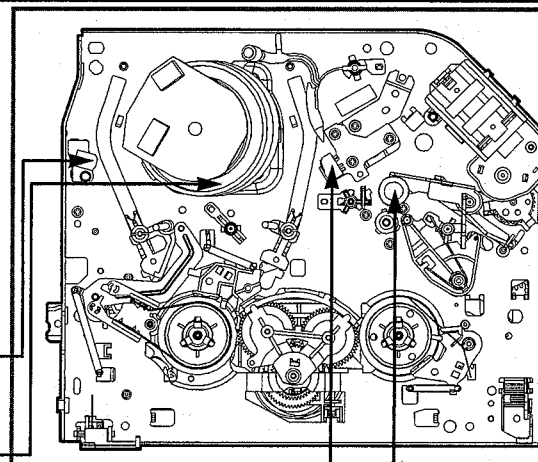


Fig. C-9-1 Top VIEW

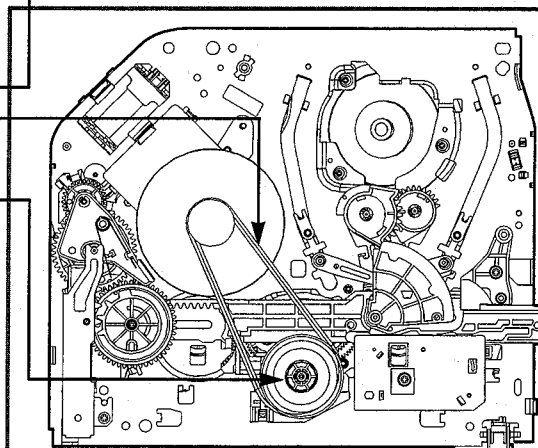


Fig. C-9-2 BOTTOM VIEW

* No. (1)~(13) Indicates the Tape Path to be traveled from Supply Reel to Take-up Reel.

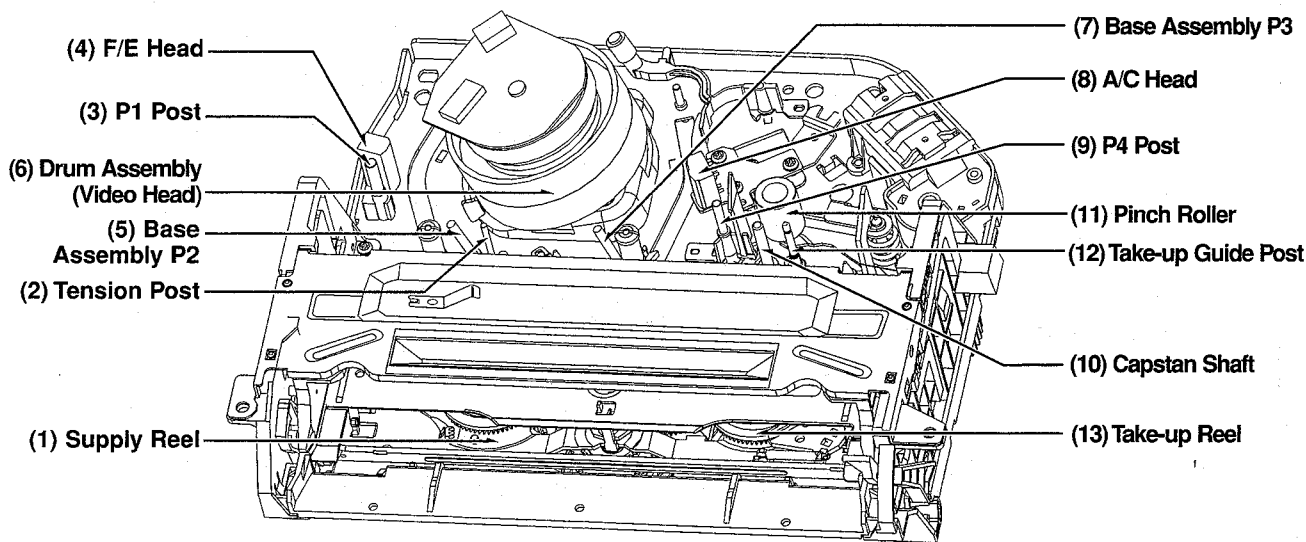


Fig. C-9-3 Tape Transport System

MAINTENANCE/INSPECTION PROCEDURE

2. Required Maintenance

The recording density of a VCR(VCP) is much higher than that of an audio tape recorder. VCR(VCP) components must be very precise, at tolerances of 1/1000mm, to ensure compatibility with other VCRs. If any of these components are worn or dirty, the symptoms will be the same as if the part is defective. To ensure a good picture, periodic inspection and maintenance, including replacement of worn out parts and lubrication, is necessary.

3. Scheduled Maintenance

Schedules for maintenance and inspection are not fixed because they vary greatly according to the way in which the customer uses the VCR(VCP), and the environment in which the VCR(VCP) is used.

But, in general home use, a good picture will be maintained if inspection and maintenance is made every 1,000 hours. The table below shows the relation between time used and inspection period.

Table 1

When inspection is necessary Average hours used per day	About 1 year	About 18 months	About 3 years
One hour			
Two hours			
Three hours			

4. Supplies Required for Inspection and Maintenance

- (1) Grease : Kanto G-311G (Blue) or equivalent
- (2) Isopropyl Alcohol or equivalent
- (3) Cleaning Patches
- (4) Grease : Kanto G-381(Yellow) : Used only for Reel S and Reel T

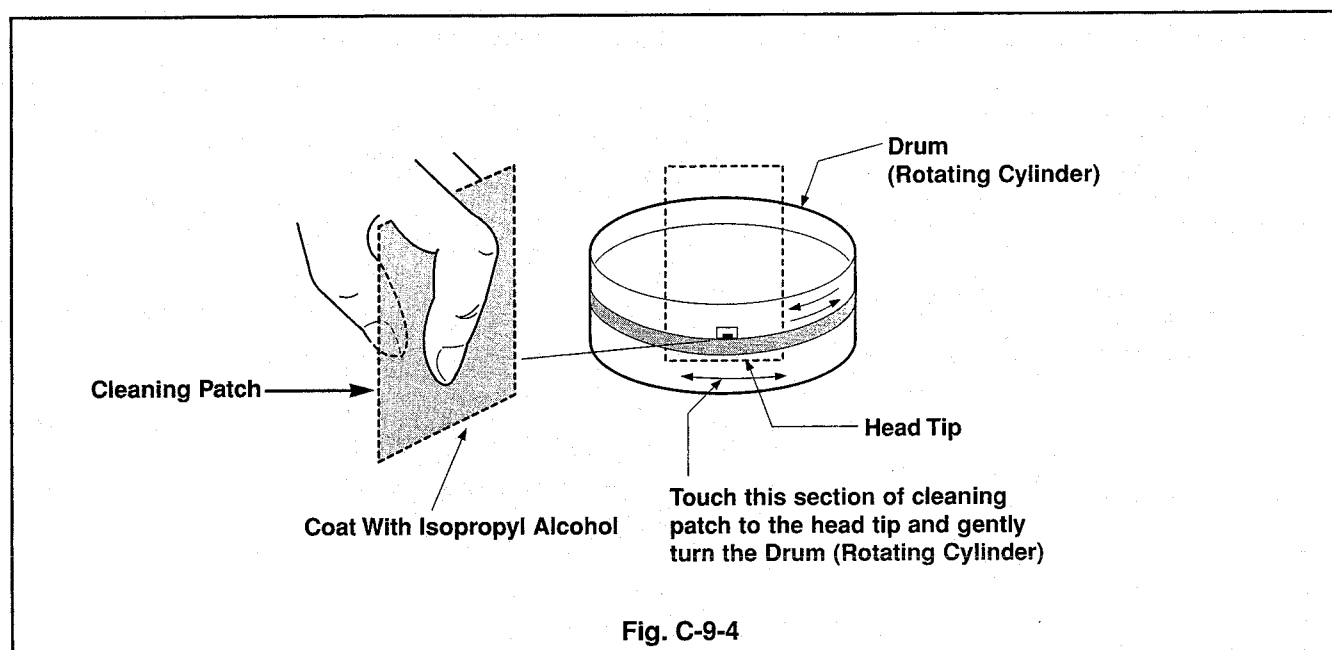
5) Maintenance Procedure

5-1) Cleaning

- (1) Cleaning video head
First use a cleaning tape. If the dirt on the head is too stubborn to remove by tape, use the cleaning patch. Coat the cleaning patch with Isopropyl Alcohol. Touch the cleaning patch to the head tip and gently turn the head(rotating cylinder) right and left.
(Do not move the cleaning patch vertically. Make sure that only the buckskin on the cleaning patch comes into contact with the head. Otherwise, the head may be damaged.)
Thoroughly dry the head. Then run the test tape. If Isopropyl Alcohol remains on the video head, the tape may be damaged when it comes into contact with the head surface.
- (2) Clean the tape transport system and drive system, etc, by wiping with a cleaning patch wetted with Isopropyl Alcohol.

NOTES:

- ① It is the tape transport system which comes into contact with the running tape. The drive system consists of those parts which moves the tape.
- ② Make sure that during cleaning you do not touch the tape transport system with the tip of a screw driver and no that force is that would cause deforming or damage applied to the system.



MAINTENANCE/INSPECTION PROCEDURE

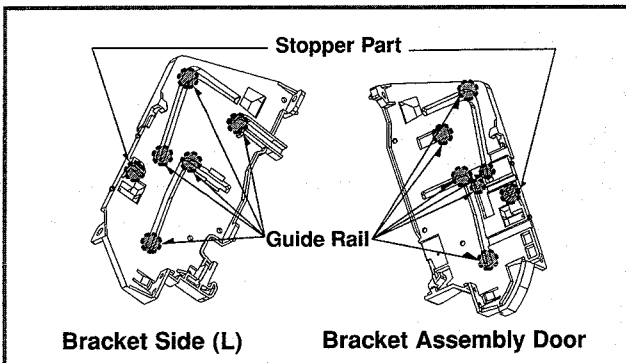
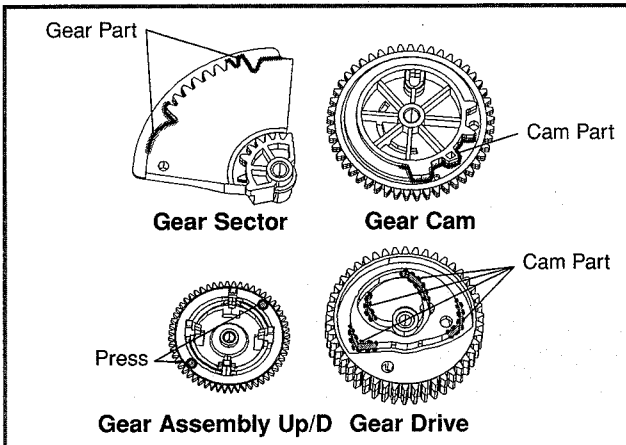
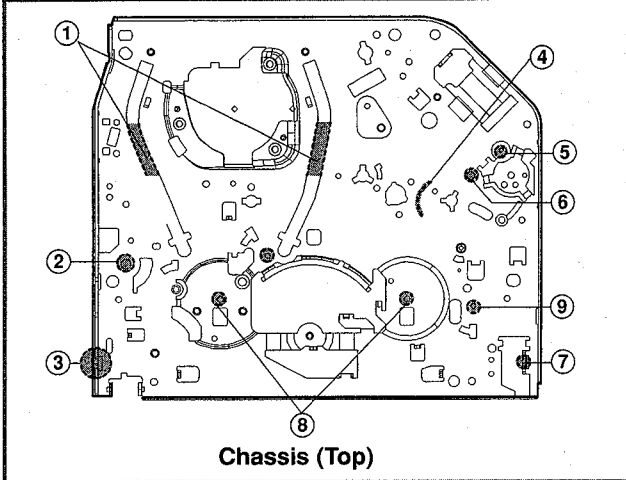
5-2) Greasing

(1) Greasing guidelines

Apply grease, with a cleaning patch. Do not use excess grease. It may come into contact with the tape transport or drive system. Wipe any excess and clean with cleaning patch wetted in Isopropyl Alcohol.

NOTE: Greasing Points

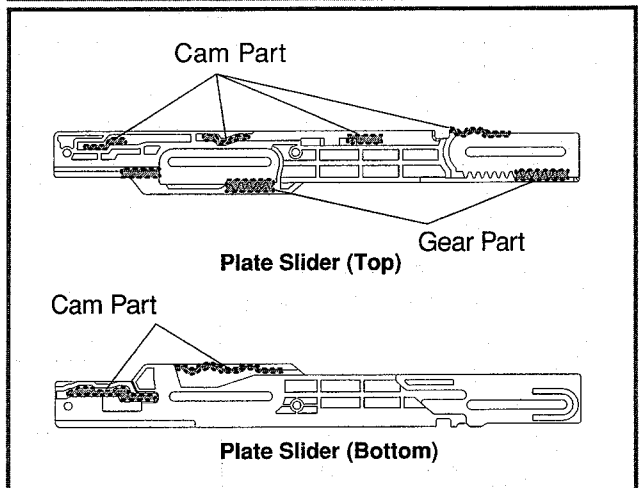
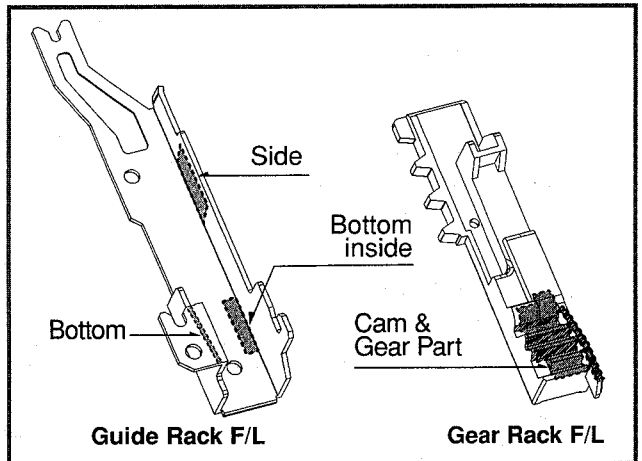
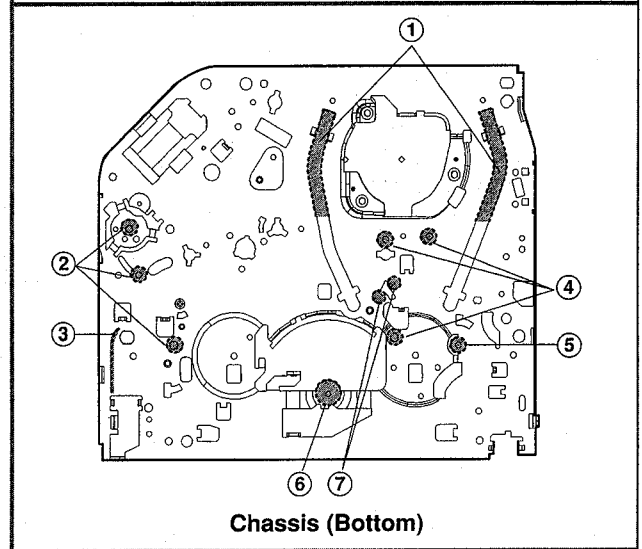
- | | |
|-----------------------------------|---|
| 1) Loading Path Inside & Top side | 6) Shaft |
| 2) Base Tension Boss inside Hole | 7) Arm Assembly F/L of Buming Inside Hole |
| 3) Arm Assembly F/L "U" Groove | 8) Reel S, T Shaft (G381:Yellow) |
| 4) Arm Take-up Rubbing Section | 9) Brake T Groove |
| 5) L/D Motor Worm Wheel Part | |



(2) Periodic greasing

Grease specified locations every 5,000 hours.

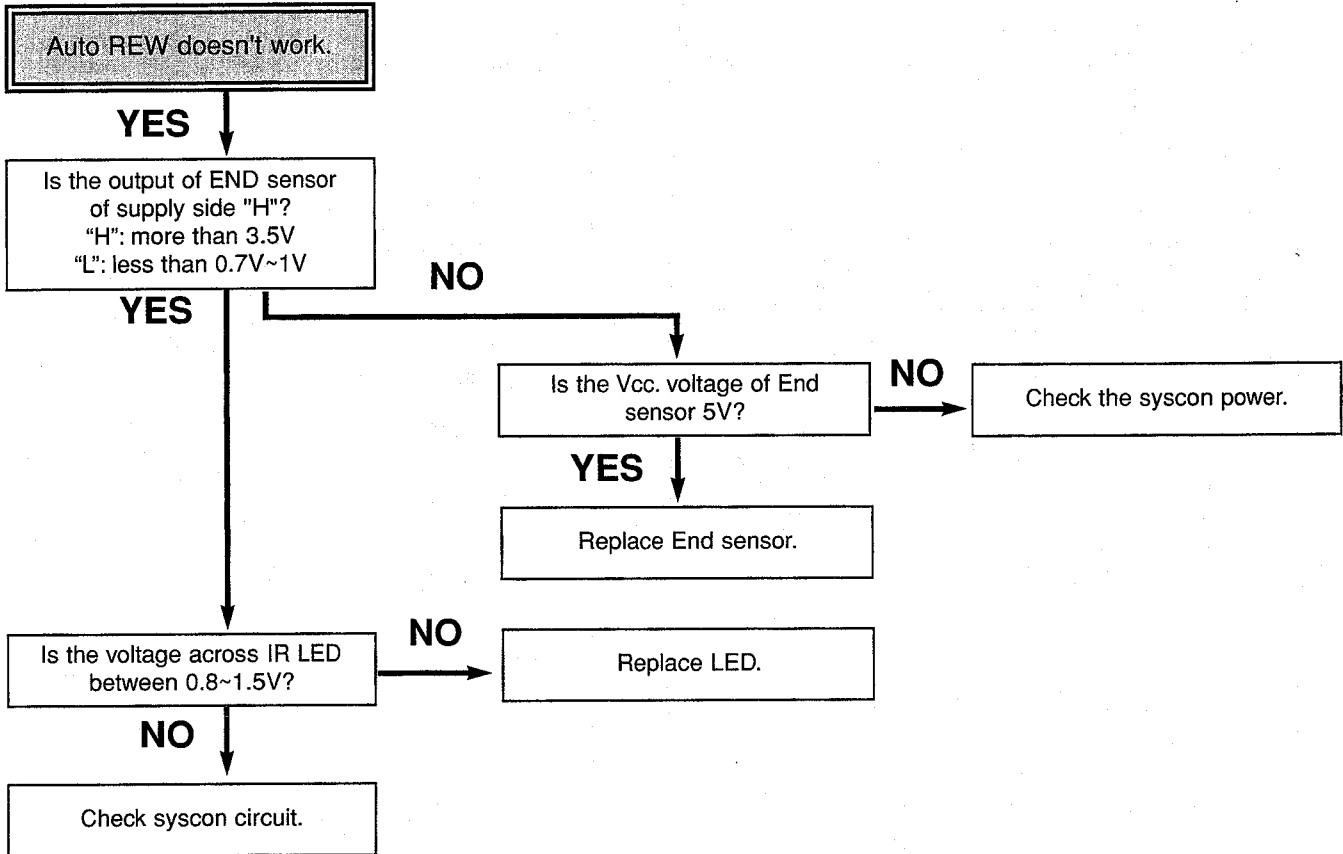
- | | |
|-----------------------------------|------------------------------|
| 1) Loading Path Inside & Top side | 5) Lever Tension Groove |
| 2) Shaft | 6) Clutch Assembly D33 Shaft |
| 3) Gear Rack F/L Moving Section | 7) Brake "S" Rubbing Section |
| 4) Shaft | |



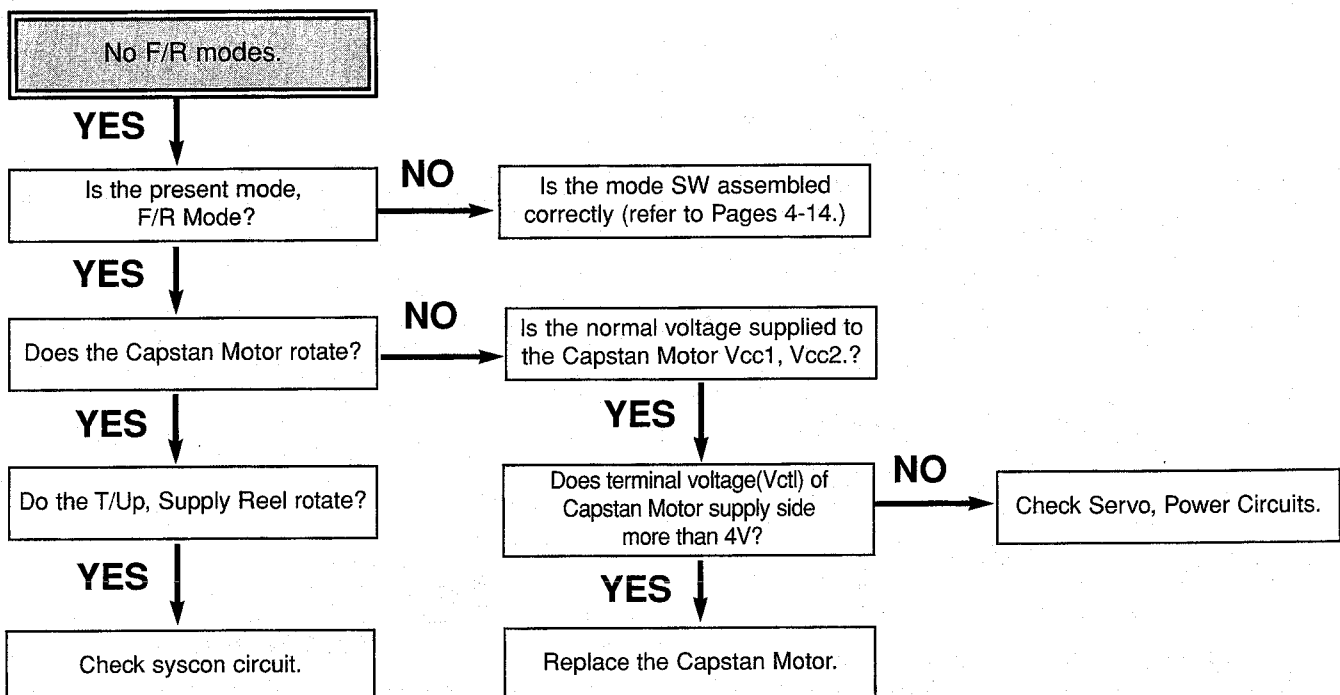
MECHANISM TROUBLESHOOTING GUIDE

1. Deck Mechanism

A.

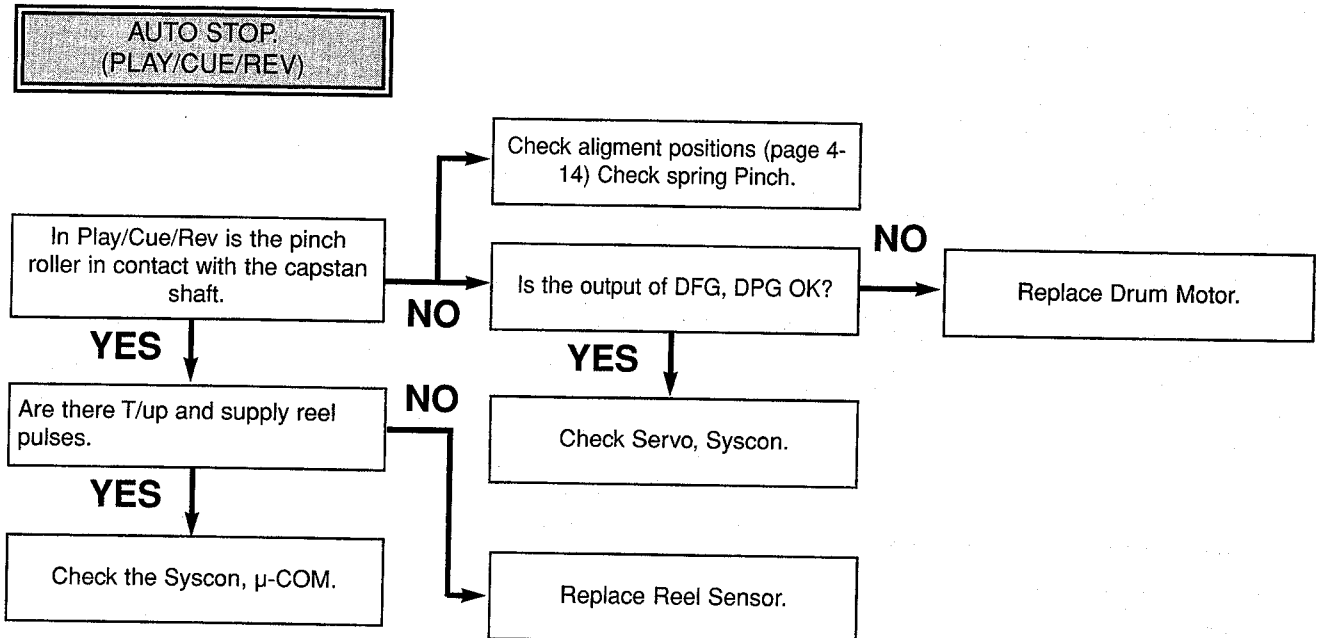


B.

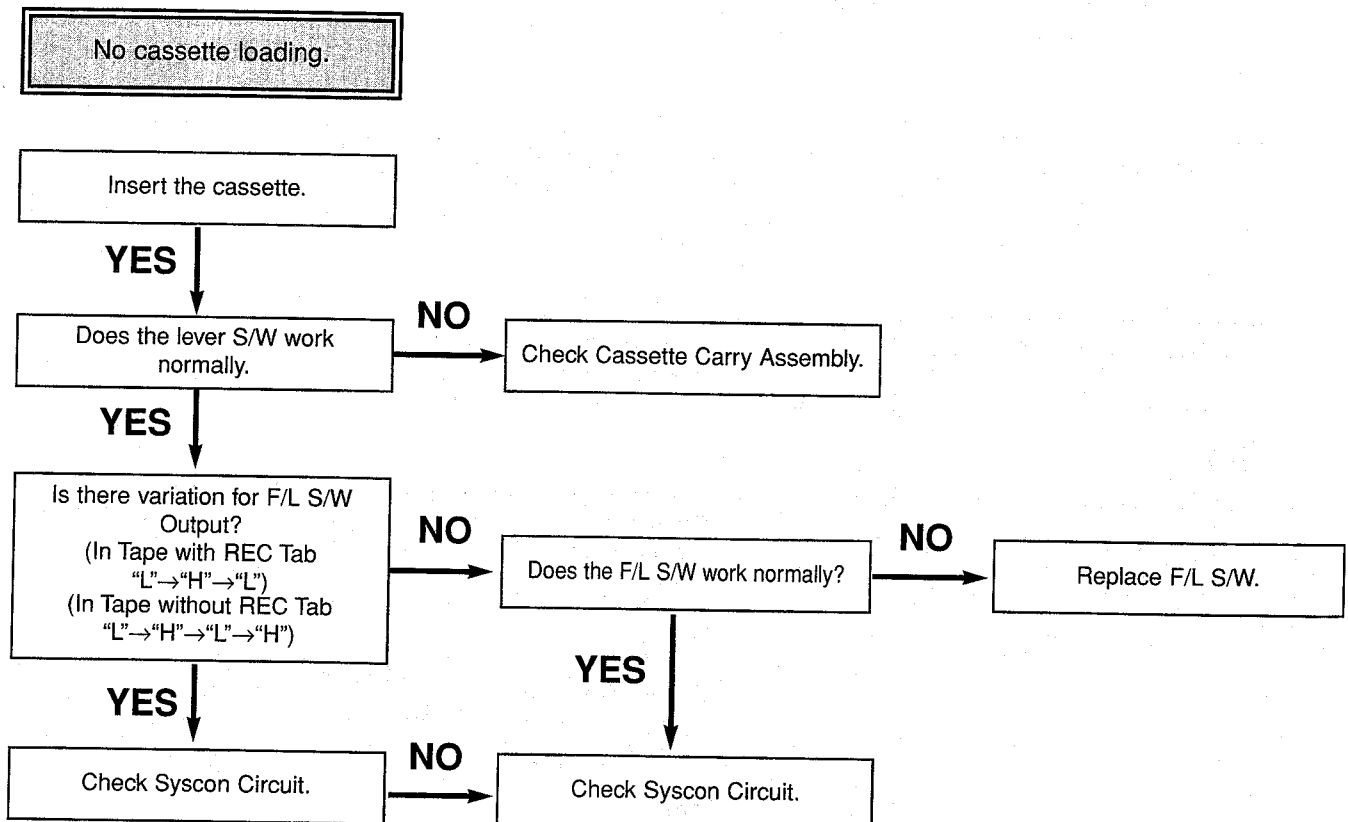


MECHANISM TROUBLESHOOTING GUIDE

C.

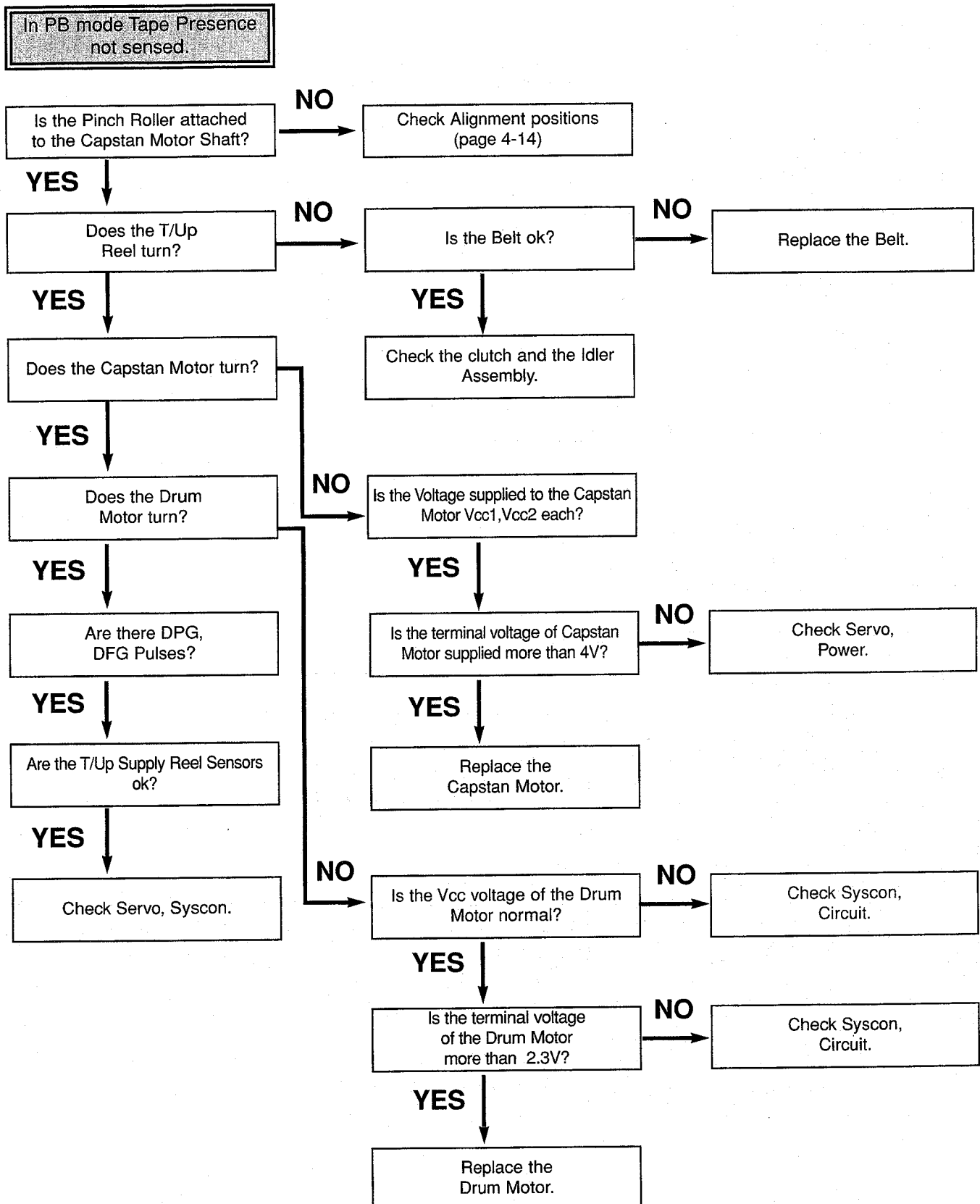


D.



MECHANISM TROUBLESHOOTING GUIDE

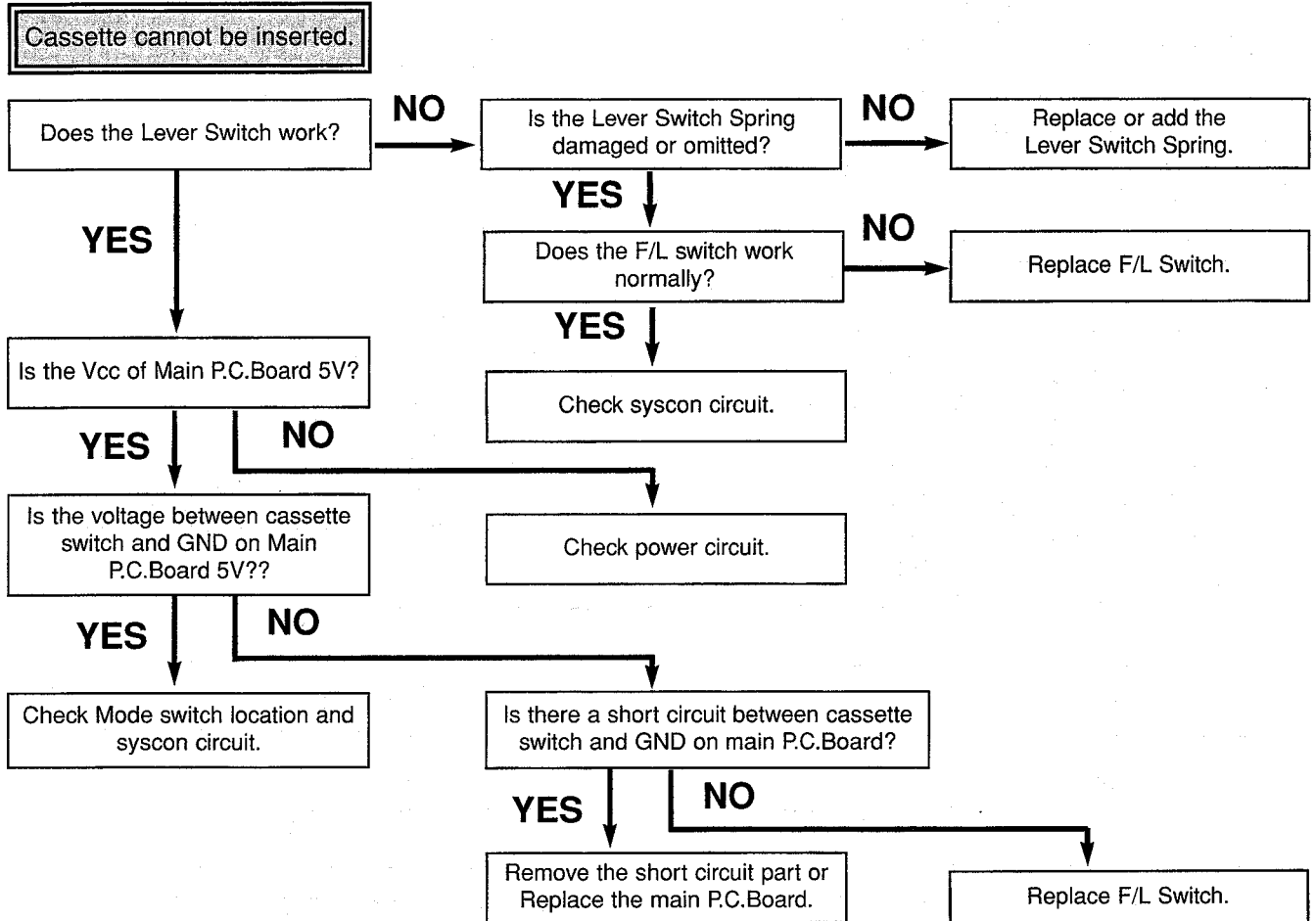
E.



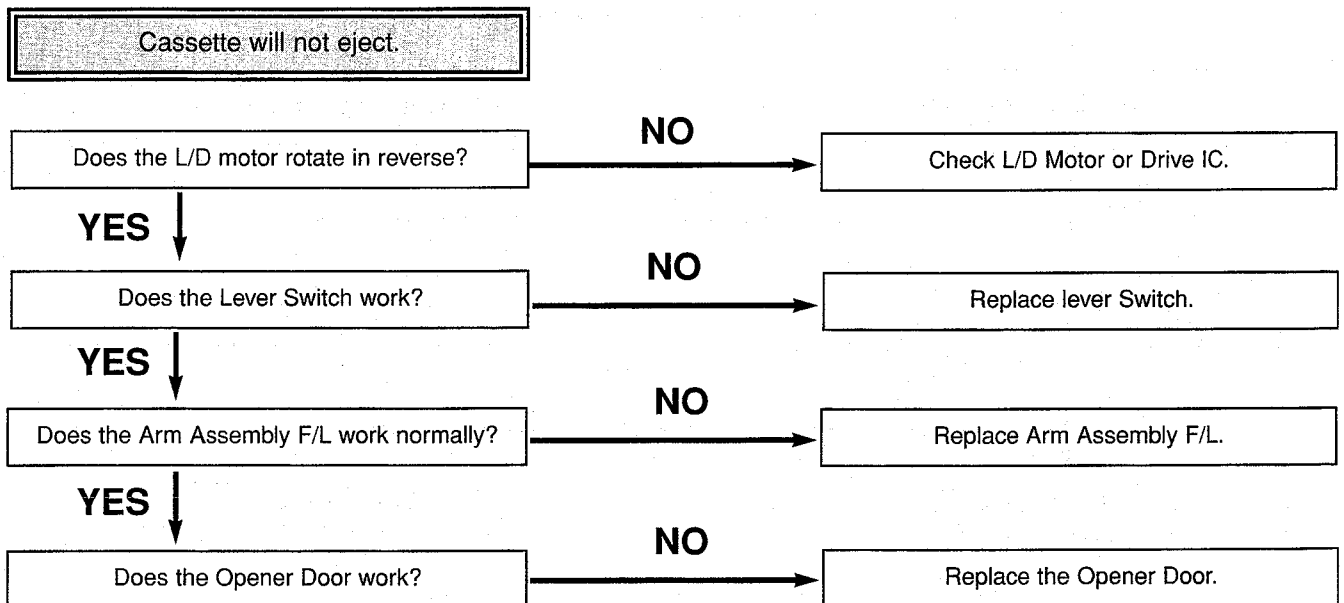
MECHANISM TROUBLESHOOTING GUIDE

2. Front Loading Mechanism

A.

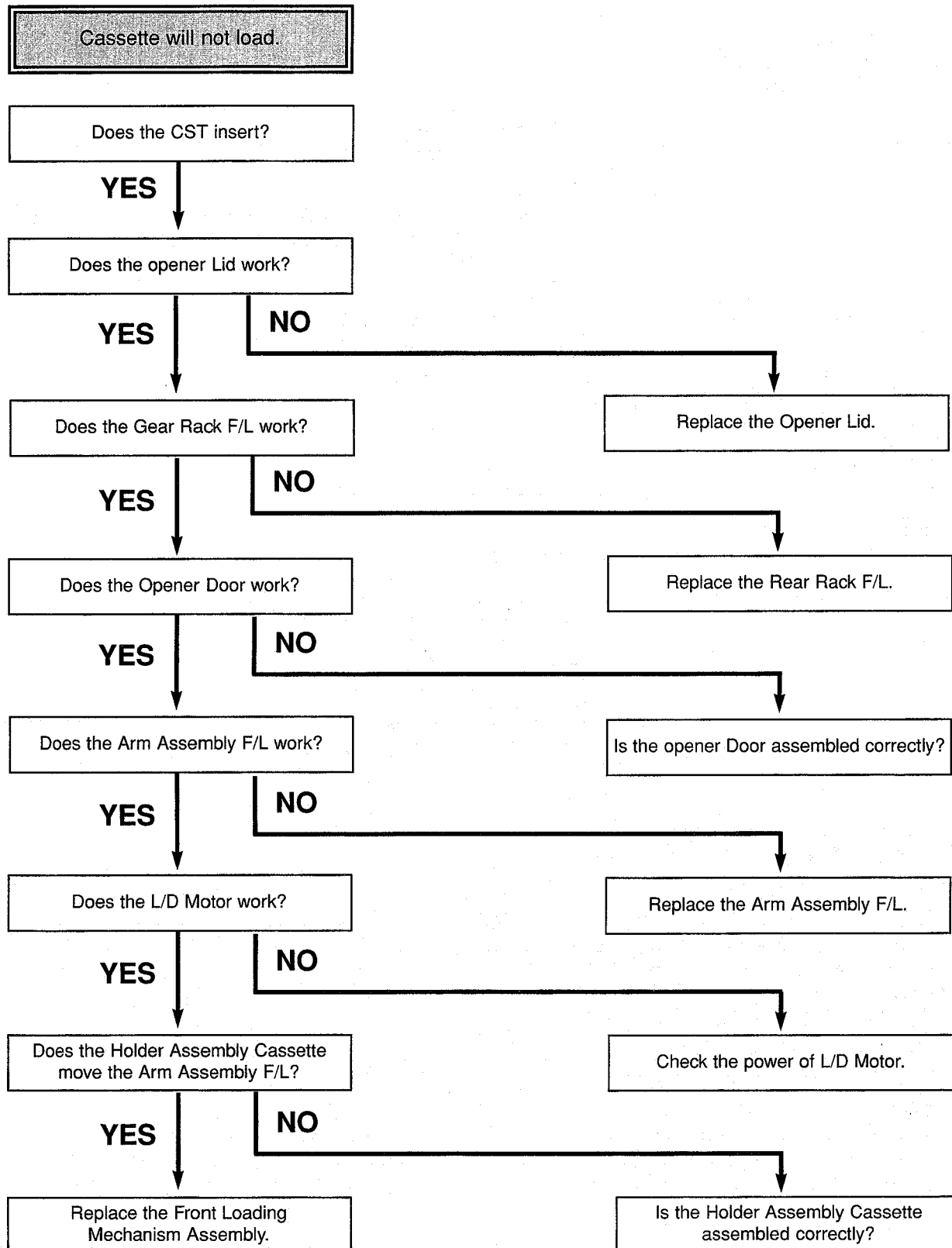


B.



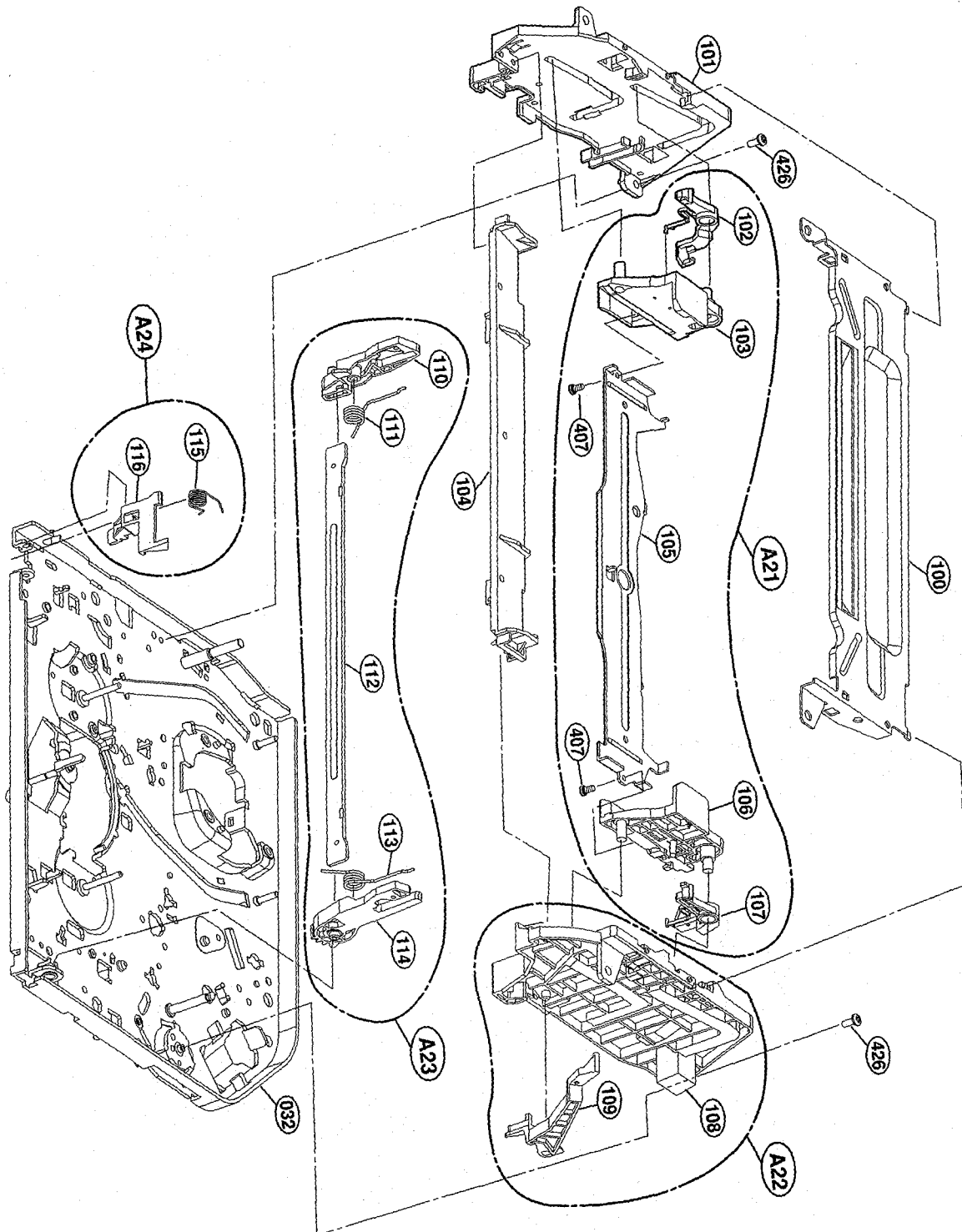
MECHANISM TROUBLESHOOTING GUIDE

C.



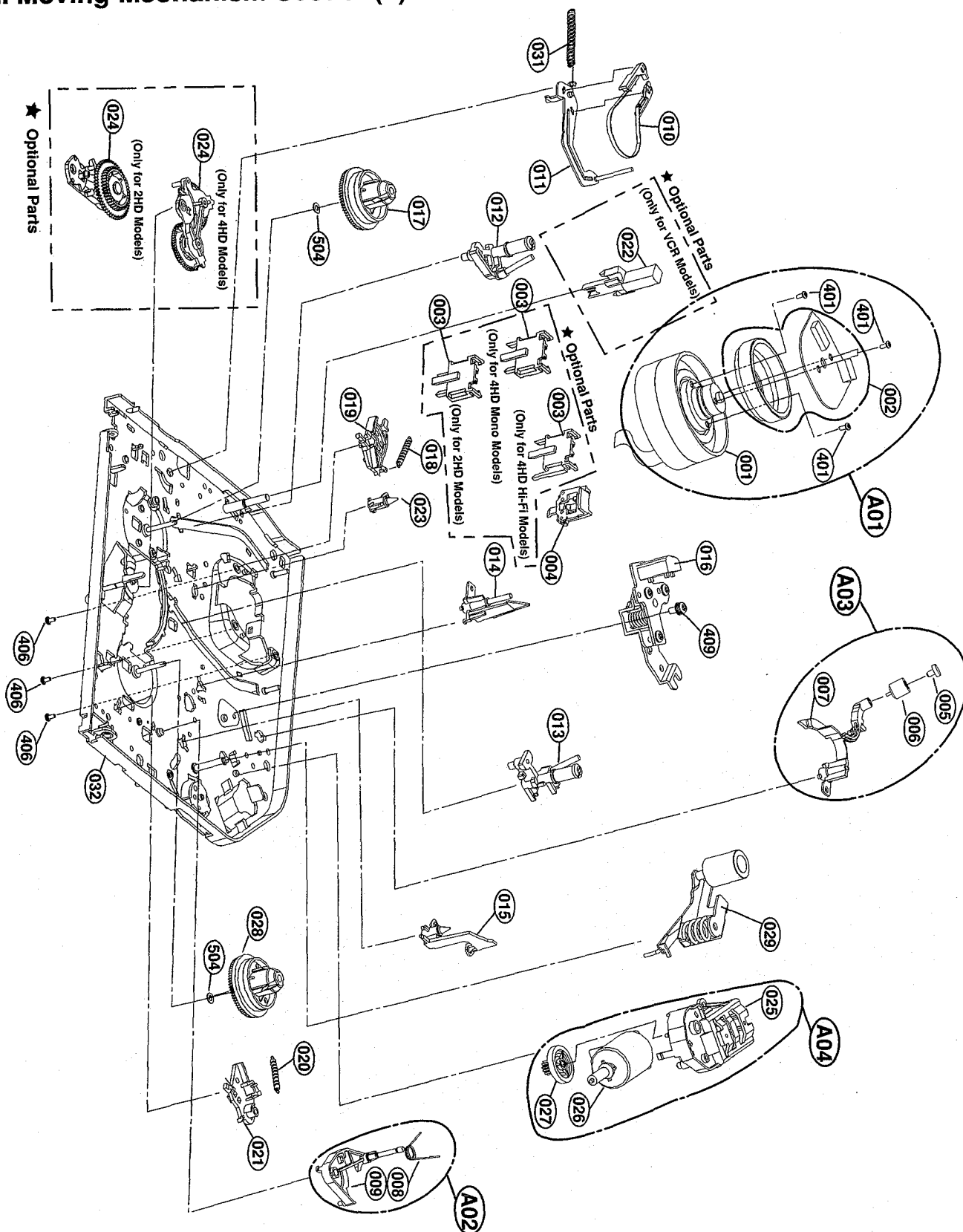
EXPLODED VIEWS

1. Front Loading Mechanism Section



EXPLODED VIEWS

2. Moving Mechanism Section(1)



MEMO

Handwriting practice lines consisting of 20 horizontal dotted lines.

SECTION 5 REPLACEMENT PARTS LIST

VS-J718EO-DN
VS-J718EO-D

• Mechanical Section

RUN DATE : 99.06.18
NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
ASSEMBLY PARTS SECTION						
	OR	A00	6721R-0152A	DECK ASSY	D33 (4HF, PAL, JOG)	
		A01	6723R-0103D	DRUM ASSY	D33-6CH PAL (5P6)	
		A01	6723R-D103D	DRUM(CIRC) ASSY	D33-6CH PAL (5P6)	
		A02	4261R-0012A	ARM ASSY!	T/UP	
		A03	4261R-0003A	ARM ASSY!	CLEANER	
		A04	4811R-0011A	BRACKET ASSY	L/D MOTOR	
		A11	4470R-0028A	GEAR	ASSY P3	
		A12	4470R-0026A	GEAR	ASSY P2	
		A13	4811R-0012A	BRACKET ASSY	JOG	
		A14	4421R-0005B	BRAKE ASSY	CAPSTAN	
		A21	4931R-0015A	HOLDER ASSY	CST	
		A22	4811R-0014A	BRACKET ASSY	DOOR	
		A23	4261R-0010A	ARM ASSY!	F/L	
		A24	4510R-0019A	LEVER	ASSY SWITCH	
PARTS SECTION						
	OR	001	6723R-0106D	DRUM ASSY	SUB D33-6CH PAL (5P6)	
		002	4680RB0004A	MOTOR(MECH)	DRUM F2OEL-81 SANKYO D33	
		002	4680RB0005A	MOTOR(MECH)	DRUM GVD-033A LGEC D33	
		003	4930R-0108A	HOLDER	FPC(6CH)	
		004	5006R-0014A	CAP	FPC	
		005	276-100A	CAP	A CLEANER	NSP
		006	434-242A	ROLLER	CLEANER	NSP
		007	4260R-0009A	ARM	CLEANER	NSP
		008	4970R-0043A	SPRING	T/UP	
		009	4260R-0011A	ARM	T/UP	
		010	4770R-0004A	BAND (MECH)	ASSY TENSION	
		011	4261R-0004A	ARM ASSY!	TENSION	
	OR	012	3041R-0003A	BASE ASSY	P2	
		012	3041R-0003B	BASE ASSY	P2 (D/C)	
		013	3041R-0004A	BASE ASSY	P3	
	OR	013	3041R-0004B	BASE ASSY	P3(D/C)	
		014	3041R-0007A	BASE ASSY	P4	
		015	5870R-0001A	OPENER	LID	
		016	3041R-0005A	BASE ASSY	A/C HEAD(LGEC)	
		017	4408R-0001A	REEL	S	
		018	4970R-0054A	SPRING	SB	
		019	4421R-0003A	BRAKE ASSY	S	
		020	4970R-0053A	SPRING	TB	
		021	4421R-0004A	BRAKE ASSY	T	
		022	523-833B	HEAD	FE D33 . LG C&D/ST	
		023	4980R-0010A	SUPPORTER	CST	
		024	4261R-0009A	ARM ASSY!	IDLER-J	
		025	4810R-0053A	BRACKET	L/D MOTOR	NSP
		026	4681R-0007A	MOTOR ASSY	L/D	NSP
		027	4470R-0025A	GEAR	WHEEL	NSP
		028	4408R-0002A	REEL	T	
		029	4261R-0011A	ARM ASSY!	PINCH (MOLD BEARING)	

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS	
OR		031	4970R-0052A	SPRING	TENSION	NSP	
		032	3141R-0002A	CHASSIS ASSY	D33		
		051	4400R-0005A	BELT	CAPSTAN		
		052	4680RA0002A	MOTOR(MECH)	CAPSTAN F2QSB SANKYO D33		
		052	4680RA0003A	MOTOR(MECH)	CAPSTAN GVC-033A LGEC D33		
		053	4974R-0018A	GUIDE	RACK F/L		
		054	4470R-0037A	GEAR	RACK F/L		
		055	4470R-0033A	GEAR	DRIVE		
		056	4470R-0032A	GEAR	CAM		
		057	4470R-0036B	GEAR	CONNECT		
		058	4420R-0005A	BRAKE	CAPSTAN		
		059	4970R-0059A	SPRING	CAPSTAN		
		060	4510R-0025A	LEVER	F/R		
		061	4265R-0002A	CLUTCH ASSY	D33		
		062	4470R-0044A	GEAR	ASSY UP/D		
		063	4970R-0051A	SPRING	UP/D		
		064	4470R-0034A	GEAR	SECTOR		
		065	4510R-0016A	LEVER	P3		NSP
		066	4970R-0046A	SPRING	L/D		NSP
		067	4470R-0029A	GEAR	P3		NSP
		068	4470R-0027A	GEAR	P2		NSP
		069	4970R-0046A	SPRING	L/D		NSP
		070	4510R-0015A	LEVER	P2		NSP
		071	4810R-0054A	BRACKET	JOG		NSP
		072	4510R-0017A	LEVER	JOG		NSP
		073	4510R-0018A	LEVER	SLOW		NSP
		074	4970R-0049A	SPRING	JOG		NSP
		075	4470R-0031A	GEAR	JOG		NSP
		076	4260R-0017A	ARM	JOG		NSP
		077	3300R-0157A	PLATE	SLIDER		NSP
		078	4510R-0022A	LEVER	TENSION		
		079	3040R-0018A	BASE	TENSION		
		100	3301R-0029A	PLATE ASSY	TOP		
		101	4810R-0056A	BRACKET	SIDE(L)		
		102	4510R-0023A	LEVER	STOPPER(L)		
		103	4930R-0099A	HOLDER	SIDE(L)		
	104	4974R-0019A	GUIDE	CST			
	105	4930R-0098A	HOLDER	CST			
	106	4930R-0100A	HOLDER	SIDE(R)			
	107	4510R-0024A	LEVER	STOPPER(R)			
	108	4810R-0055A	BRACKET	SIDE(R)			
	109	5870R-0002A	OPENER	DOOR	NSP		
	110	4260R-0018A	ARM	F/L(L)	NSP		
	111	4970R-0055A	SPRING	F/L(L)	NSP		
	112	3070R-0001A	BODY	F/L	NSP		
	113	4970R-0056A	SPRING	F/L(R)	NSP		
	114	4260R-0019A	ARM	F/L(R)	NSP		
	115	4970R-0050A	SPRING	SWITCH	NSP		
	116	4510R-0020A	LEVER	SWITCH			
SCREW							
		401	1MPK0261418	PAN HEAD MACHINE SCREW +,-	+ D2.6 L4.0 MSWR3 / FZY		
		406	1MEC0302018	PAN HEAD MACHINE SCREW S/W +	D 3.0 L 6.0 MSWR3/FZY		
		407	1APF0201718	SCREW TAP TITE(B),PAN HEAD	+ D2.0 L5.0 MSWR3/FZY		

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		409	1MGC0302418	PAN HEAD MACN SCREW S/P WASH +	D 3.0 L 8.0 MSWR3/FZY	
		410	1APF0262218	SCREW TAP TITE(B),PAN HEAD	+ D2.6 L6.8 MSWR3/FZY	
		426	1MPC0302018	PAN HEAD MACHINE SCREW +!	D 3.0 L 6.0 MSWR3/FZY	
NUT, WASHER						
		504	354-001B	WASHER	P.S D3.1XD6X0.5T	
		517	1WZZR-0004B	WASHER	STOPPER	
		518	1WZZR-0004A	WASHER	STOPPER	

• Cabinet & Main Frame Section

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
ASSEMBLY PARTS SECTION						
		A43	3721R-F107H	PANEL ASSY,FRONT[NORMAL PARTS]	(VS-J718EO-D) M/G	
		A43	3721R-F107P	PANEL ASSY,FRONT[NORMAL PARTS]	(VS-J718EO-DN)	
		A43	3721R-F107X	PANEL ASSY,FRONT[NORMAL PARTS]	(VS-J718EO-D) D/BK	
		A49	6871R-1241A	PWB(PCB) ASSY	TIMER(AKAI,1PNL)	
PARTS SECTION						
		250	3110R-0128K	CASE	TOP(VS-J718EO-DN) M/G	NSP NSP NSP
		250	3110R-0128R	CASE	TOP(VS-J718EO-D) D/BK	
		260	3210R-0023B	FRAME	MAIN (VII-PJT, 60HR)	
		275	4930R-0133A	HOLDER	DIGITRON(UP-MONO)	
		280	3720R-F081A	PANEL	FRONT (VS-J718EO-DN)	
		280	3720R-F081H	PANEL	FRONT (VS-J718EO-D) D/BK	
		283	3580R-0038H	DOOR	CST(VS-J718EO-D)	
		283	3580R-0038P	DOOR	CST(VS-J718EO-DN)	
		284	442-681A	SPRING	DOOR	
		300	6410RCHV02A	POWER CORD	H03VVH2-F2 X 0.75MM FILTER VOL	
		320	3721R-D023E	PANEL ASSY,DISTRIBUTOR[NORMAL	AF-PAL HI-FI-2SCART-PREMERE	
		323	3111R-0089B	CASE ASSY	PRE-AMP (PBSB-SH)	
		330	3550R-0210A	COVER	BOTTOM(LARGE)	
SCREW						
		452	353-051A	SCREW	SPECIAL	
		457	353-051E	SCREW	SPECIAL (3X12)	
		462	353-136A	SCREW	SPECIAL(FBK) (353S353A)	

• Packing Accessory Section

RUN DATE : 99.06.18
NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		801	3835RP0037Q	INSTRUCTION ASSY	(VS-J718EO-D) :GERMANY	
		801	3835RP0037R	INSTRUCTION ASSY	(VS-J718EO-DN) :FINLAND	
		801	3835RP0037S	INSTRUCTION ASSY	(VS-J718EO-DN) :NETHERLAND	
		802	3890R-H392A	BOX	(VS-J718EO-DN)FINLA/NETHERLAND	
		802	3890R-H400A	BOX	(VS-J718EO-D N) :GERMANY	
		802	3890R-H400B	BOX	(VS-J718EO-D N) :GERMANY	
		803	3920R-0075A	PACKING	AK219I 0.02 1 EPS 1 1 1	
	OR	804	292-053A	BAG	SOFT(VCP)	NSP
		804	3858R-0006A	SHEET	ROLL(W630XL300MX0.5T)	NSP
		808	534-002C	BATTERY	1.5V AAM UM-3 LOL 1PAIR	
		810	861-505J	CABLE SET ASSY	RF-CABLE ASSY PAL FTZ	

• Remote Control Section

RUN DATE : 99.06.18
NSP: Not Service Part

S	AL	LOCA.NO	PART NO(GS)	DESCRIPTION	SPECIFICATION	REMARKS
		900	6711R2P017A	REMOTE CONTROLLER ASSY	(A1:RC-Y171E RC-Z122E)	

Electrical Section

RUN DATE : 99.06.18

CAUTION: The * marks in the parts list designate components which have special characteristics important for safety and should be replaced only with types identical to those in the original circuit or specified in the parts list. Before replacing any of these components, read carefully the SAFETY PRECAUTIONS and SERVICING PRECAUTIONS in the manual. Do not degrade the safety of the unit through improper servicing.

Tolerance

Symbol	C	J	K	M	N	Z	P	A
%	±2	±5	±10	±20	±30	+80 -20	+100 -10	+100 -10

CC, CJ, CK: Capacitor, Ceramic
CE: Capacitor, Electrolytic
CQ: Capacitor, Polyester

S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION	S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
CAPACITOR									
		C101	624-088H	PCX2 0.1UF/275VAC R T/P			C318	OCE2254K638	2.2M SRA 50V M FM5 TP(5)
		C102	624-088H	PCX2 0.1UF/275VAC R T/P			C319	OCN1040K948	0.1UF 50V Z F TA26 D
		C103	624-082F	CE 68UF/400V SHLVN			C320	OCN1050K948	1UF 50V Z F TA26 D
		C105	OCQ1031Y519	0.01UF D 630V K PE NI TP			C322	OCE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C106	624-087B	HIGH-VOL 100P/1KV SMPS SAMHWA			C323	OCE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C109	OCE336BH638	33UF KME 25V M FM5 TP5			C324	OCN1040K948	0.1UF 50V Z F TA26 D
		C111	OCN223AK948	0.022UF 50V Z F TA26 S			C325	OCN1050K948	1UF 50V Z F TA26 D
		C112	OCG3320U630	3300 PF 400V M E R(NK,AD,SD)			C326	OCE1064F638	10M SRA 16V M FM5 TP(5)
		C113	OCG2210U610	220 PF 400V M B R(NK,AD,SD)			C327	OCE1063F638	10M SRE/SE 16V M FM5 TP(5)
		C114	OCQ4732K409	0.047UF S 50V J PE TP			C328	OCN223AK948	0.022UF 50V Z F TA26 S
		C115	624-085D	CE 47UF/50V KME (SMPS)			C329	OCN223AK948	0.022UF 50V Z F TA26 S
		C116	OCE108BF638	1000UF KME TYPE 16V M FM5 TP 5			C330	OCN1030F678	0.01M 16V M Y TA26
		C117	OCE477CF638	470UF SHL TYPE 16V M FM5 TP 5			C331	OCE2274C638	220M SRA 6.3V M FM5 TP(5)
		C118	OCE2276D638	220M SMS 10V M FM5 TP(5)			C332	OCN1030F678	0.01M 16V M Y TA26
		C119	624-085D	CE 47UF/50V KME (SMPS)			C333	OCN223AK948	0.022UF 50V Z F TA26 S
		C120	OCE477BH638	470UF KME 25V M FM5 TP5			C334	OCN223AK948	0.022UF 50V Z F TA26 S
		C121	624-082G	CE 470UF/25V SHL(10*12.5)T/P			C335	OCN1040K948	0.1UF 50V Z F TA26 D
		C122	OCN223AK948	0.022UF 50V Z F TA26 S			C336	OCN1030F678	0.01M 16V M Y TA26
		C124	OCE4754K638	4.7M SRA 50V M FM5 TP(5)			C337	OCE4754K638	4.7M SRA 50V M FM5 TP(5)
		C151	OCE4754K638	4.7M SRA 50V M FM5 TP(5)			C338	OCN223AK948	0.022UF 50V Z F TA26 S
		C152	OCE4754K638	4.7M SRA 50V M FM5 TP(5)			C339	OCE4754K638	4.7M SRA 50V M FM5 TP(5)
		C153	OCE4754K638	4.7M SRA 50V M FM5 TP(5)			C340	OCN3330K518	0.033UF 50V K B TA26
		C155	OCN1040K948	0.1UF 50V Z F TA26 D			C341	OCN223AK948	0.022UF 50V Z F TA26 S
		C156	OCE1054K638	1.0M SRA/SS50V M FM5 TP(5)			C342	OCN1030F678	0.01M 16V M Y TA26
		C157	OCE1054K638	1.0M SRA/SS50V M FM5 TP(5)			C343	OCN4730K948	0.047M 50V Z F TA26
		C159	OCE1064F638	10M SRA 16V M FM5 TP(5)			C344	OCN223AK948	0.022UF 50V Z F TA26 S
		C218	OCN1040K948	0.1UF 50V Z F TA26 D			C346	OCE2274C638	220M SRA 6.3V M FM5 TP(5)
		C220	OCN223AK948	0.022UF 50V Z F TA26 S			C348	OCE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C301	OCN1040K948	0.1UF 50V Z F TA26 D			C350	OCN1040K948	0.1UF 50V Z F TA26 D
		C303	OCE1054K638	1.0M SRA/SS50V M FM5 TP(5)			C351	OCN1040K948	0.1UF 50V Z F TA26 D
		C304	OCE2274C638	220M SRA 6.3V M FM5 TP(5)			C352	OCN1040K948	0.1UF 50V Z F TA26 D
		C305	OCN1040K948	0.1UF 50V Z F TA26 D			C353	OCX2700K408	27P 50V J SL TA26
		C306	OCN1030F678	0.01M 16V M Y TA26			C354	OCE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C307	OCX2700K408	27P 50V J SL TA26			C355	OCN1030F678	0.01M 16V M Y TA26
		C309	OCN3310K518	330P 50V K B TA26			C356	OCN1040K948	0.1UF 50V Z F TA26 D
		C310	OCE4754K638	4.7M SRA 50V M FM5 TP(5)			C358	OCE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C311	OCN1810K518	180P 50V K B TA26			C363	OCX3900K408	39P 50V J SL TA26
		C312	OCX2200K408	22P 50V J SL TP26			C367	OCN4730K948	0.047M 50V Z F TA26
		C313	OCN1010K418	100PF 50V J B TA26			C368	OCN1020K518	1000P 50V K B TA26
		C314	OCN1040K948	0.1UF 50V Z F TA26 D			C369	OCN223AK948	0.022UF 50V Z F TA26 S
		C315	OCE1064F638	10M SRA 16V M FM5 TP(5)			C370	OCN1810K518	180P 50V K B TA26
		C316	OCE1064F638	10M SRA 16V M FM5 TP(5)			C372	OCN8200K518	82PF 50V K B TA26
		C317	OCN1030F678	0.01M 16V M Y TA26			C374	OCN223AK948	0.022UF 50V Z F TA26 S
							C375	OCN1040K948	0.1UF 50V Z F TA26 D
							C376	OCN1040K948	0.1UF 50V Z F TA26 D

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		C3A1	OCN223AK948	0.022UF 50V Z F TA26 S
		C3B1	OCN3330K518	0.033UF 50V K B TA26
		C401	OCE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C402	OCN223AK948	0.022UF 50V Z F TA26 S
		C403	OCN1040K948	0.1UF 50V Z F TA26 D
		C405	OCE1064F638	10M SRA 16V M FM5 TP(5)
		C406	OCE1064F638	10M SRA 16V M FM5 TP(5)
		C408	OCQ1532K409	0.015UF S 50V J PE TP
		C410	OCN1040K948	0.1UF 50V Z F TA26 D
		C412	OCN1040K948	0.1UF 50V Z F TA26 D
		C413	OCN1030F678	0.01M 16V M Y TA26
		C414	OCQ1032K409	0.01UF S 50V J PE TP
		C415	OCE2264F638	22M SRA 16V M FM5 TP(5)
		C416	OCN2220F668	2200P 16V M X TA26
		C417	OCN1220F668	1200P 16V M X TA26
		C418	OCQ1532K409	0.015UF S 50V J PE TP
		C419	OCQ1032K409	0.01UF S 50V J PE TP
		C420	OCE4765K618	47UF SR.SV 50V M FL TP 5
		C421	OCQ2232L559	0.022UF S 63V K PP NI TP5
		C423	OCE4754K638	4.7M SRA 50V M FM5 TP(5)
		C424	OCN1040K948	0.1UF 50V Z F TA26 D
		C431	OCN1030F678	0.01M 16V M Y TA26
		C466	OCE3354K638	3.3M SRA 50V M FM5 TP(5)
		C467	OCE1064F638	10M SRA 16V M FM5 TP(5)
		C500	624-074A	SUPER CAP 0.047F/5.5V T/P S/S
		C501	OCN1040K948	0.1UF 50V Z F TA26 D
		C502	OCE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C503	OCN1040K948	0.1UF 50V Z F TA26 D
		C504	OCE2274C638	220M SRA 6.3V M FM5 TP(5)
		C505	OCE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C506	OCN223AK948	0.022UF 50V Z F TA26 S
		C507	OCN1040K948	0.1UF 50V Z F TA26 D
		C508	OCN1040K948	0.1UF 50V Z F TA26 D
		C509	OCN223AK948	0.022UF 50V Z F TA26 S
		C510	OCE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C512	OCN1810K518	180P 50V K B TA26
		C513	OCN1040K948	0.1UF 50V Z F TA26 D
		C514	OCC1800K415	18P 50V J NPO TS
		C515	OCC1800K415	18P 50V J NPO TS
		C516	OCN223AK948	0.022UF 50V Z F TA26 S
		C518	OCC3300K415	33P 50V J NPO TP
		C519	OCC3900K415	39P 50V J NPO TP
		C520	OCN1020K518	1000P 50V K B TA26
		C521	OCN223AK948	0.022UF 50V Z F TA26 S
		C522	OCN1030F678	0.01M 16V M Y TA26
		C524	OCE3364F638	33M SRA 16V M FM5 TP(5)
		C525	OCE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C526	OCE4764H638	47M SRA 25V M FM5 TP(5)
		C527	OCN1810K518	180P 50V K B TA26
		C528	OCN1030F678	0.01M 16V M Y TA26
		C529	OCN1040K948	0.1UF 50V Z F TA26 D
		C530	OCE1064F638	10M SRA 16V M FM5 TP(5)
		C532	OCN223AK948	0.022UF 50V Z F TA26 S
		C533	OCN1020K518	1000P 50V K B TA26
		C534	OCE4754K638	4.7M SRA 50V M FM5 TP(5)
		C535	OCE4754K638	4.7M SRA 50V M FM5 TP(5)
		C536	OCN1030F678	0.01M 16V M Y TA26
		C537	OCN1030F678	0.01M 16V M Y TA26
		C540	OCQ3332K409	0.033UF S 50V J PE TP
		C541	OCE4754K638	4.7M SRA 50V M FM5 TP(5)
		C542	OCN6810K518	680P 50V K B TA26
		C543	OCN2220F668	2200P 16V M X TA26

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		C544	OCQ4732K409	0.047UF S 50V J PE TP
		C545	OCN1040K948	0.1UF 50V Z F TA26 D
		C546	OCE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C551	OCQ3332K409	0.033UF S 50V J PE TP
		C552	OCN1030F678	0.01M 16V M Y TA26
		C561	OCE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C564	OCN3310K518	330P 50V K B TA26
		C567	OCN1020K518	1000P 50V K B TA26
		C570	OCC1800K415	18P 50V J NPO TS
		C571	OCC1800K415	18P 50V J NPO TS
		C574	OCN1020K518	1000P 50V K B TA26
		C575	OCN1020K518	1000P 50V K B TA26
		C576	OCC1500K415	15P 50V J NPO TS
		C577	OCC1200K415	12P 50V J NPO TS
		C578	OCN1220F668	1200P 16V M X TA26
		C581	OCN1030F678	0.01M 16V M Y TA26
		C582	OCN1030F678	0.01M 16V M Y TA26
		C588	OCE4754K638	4.7M SRA 50V M FM5 TP(5)
		C596	OCN223AK948	0.022UF 50V Z F TA26 S
		C5F4	OCN1040K948	0.1UF 50V Z F TA26 D
		C5F7	OCN1050K948	1UF 50V Z F TA26 D
		C5F8	OCE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C5P1	OCN1030F678	0.01M 16V M Y TA26
		C5P2	OCN1030F678	0.01M 16V M Y TA26
		C5S1	OCX4300K408	43P 50V J SL TA26
		C5S2	OCN223AK948	0.022UF 50V Z F TA26 S
		C5X2	OCN1030F678	0.01M 16V M Y TA26
		C701	OCE4754K638	4.7M SRA 50V M FM5 TP(5)
		C702	OCE1064F638	10M SRA 16V M FM5 TP(5)
		C703	OCE4754K638	4.7M SRA 50V M FM5 TP(5)
		C704	OCE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C705	OCN1030F678	0.01M 16V M Y TA26
		C706	OCE477CF638	470UF SHL TYPE 16V M FM5 TP 5
		C707	OCN1030F678	0.01M 16V M Y TA26
		C710	OCX4300K408	43P 50V J SL TA26
		C712	OCX5R60K508	5.6PF 50V K SL TA26
		C752	OCE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C753	OCE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C754	OCN1030F678	0.01M 16V M Y TA26
		C755	OCQ1032K409	0.01UF S 50V J PE TP
		C756	OCQ1032K409	0.01UF S 50V J PE TP
		C757	OCQ1032K409	0.01UF S 50V J PE TP
		C758	OCQ1032K409	0.01UF S 50V J PE TP
		C759	OCN1030F678	0.01M 16V M Y TA26
		C760	OCE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C761	OCE3354K638	3.3M SRA 50V M FM5 TP(5)
		C762	OCN1040K948	0.1UF 50V Z F TA26 D
		C763	OCE1064F638	10M SRA 16V M FM5 TP(5)
		C764	OCN1040K948	0.1UF 50V Z F TA26 D
		C765	OCE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C766	OCN1030F678	0.01M 16V M Y TA26
		C767	OCX5600K408	56P 50V J SL TA26
		C768	OCX5600K408	56P 50V J SL TA26
		C769	OCC0300K015	3P 50V C NPO TS
		C770	OCC0300K015	3P 50V C NPO TS
		C771	OCQ3921N409	0.0039U 100V J POLY TP
		C772	OCQ3921N409	0.0039U 100V J POLY TP
		C773	OCE1064F638	10M SRA 16V M FM5 TP(5)
		C774	OCE1064F638	10M SRA 16V M FM5 TP(5)
		C775	OCE1064F638	10M SRA 16V M FM5 TP(5)
		C776	OCE1064F638	10M SRA 16V M FM5 TP(5)
		C7M1	OCN1010K418	100PF 50V J B TA26

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		C7M2	OCE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C7M3	OCX4300K408	43P 50V J SL TA26
		C7M8	OCE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C7M9	OCN1030F678	0.01M 16V M Y TA26
		C7V1	OCE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C7V2	OCN1050K948	1UF 50V Z F TA26 D
		C7V3	0CC1200K415	12P 50V J NPO TS
		C7V4	0CC1200K415	12P 50V J NPO TS
		C7V5	0CQ5632K409	0.0560UF S 50V J PE TP
		C7V6	OCE4754K638	4.7M SRA 50V M FM5 TP(5)
		C7V7	OCE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C7V8	OCE1054K638	1.0M SRA/SS50V M FM5 TP(5)
		C801	OCN1040K948	0.1UF 50V Z F TA26 D
		C804	OCN1040K948	0.1UF 50V Z F TA26 D
		C805	OCN1040K948	0.1UF 50V Z F TA26 D
		C806	OCE4754K638	4.7M SRA 50V M FM5 TP(5)
		C807	OCE4754K638	4.7M SRA 50V M FM5 TP(5)
		C808	OCN1040K948	0.1UF 50V Z F TA26 D
		C809	OCN1040K948	0.1UF 50V Z F TA26 D
		C810	OCE1064F638	10M SRA 16V M FM5 TP(5)
		C811	OCE1064F638	10M SRA 16V M FM5 TP(5)
		C813	OCE1064F638	10M SRA 16V M FM5 TP(5)
		C814	OCE1064F638	10M SRA 16V M FM5 TP(5)
		C815	OCE1064F638	10M SRA 16V M FM5 TP(5)
		C816	OCE1064F638	10M SRA 16V M FM5 TP(5)
		C817	OCE1064F638	10M SRA 16V M FM5 TP(5)
		C818	OCE4754K638	4.7M SRA 50V M FM5 TP(5)
		C819	OCE1064F638	10M SRA 16V M FM5 TP(5)
		C820	0CQ6822K409	6800PF S 50V J PE TP
		C821	OCE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C822	OCE1064F638	10M SRA 16V M FM5 TP(5)
		C823	OCE1064F638	10M SRA 16V M FM5 TP(5)
		C824	OCE1064F638	10M SRA 16V M FM5 TP(5)
		C825	OCE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C826	0CQ6822K409	6800PF S 50V J PE TP
		C827	OCE1064F638	10M SRA 16V M FM5 TP(5)
		C828	OCE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C830	OCN1040K948	0.1UF 50V Z F TA26 D
		C831	OCN1030F678	0.01M 16V M Y TA26
		C832	OCE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C835	OCE4744K638	0.47M SRA 50V M FM5 TP(5)
		C901	OCN1020K518	1000P 50V K B TA26
		C902	OCE477CF638	470UF SHL TYPE 16V M FM5 TP 5
		C903	OCN1020K518	1000P 50V K B TA26
		C904	OCN1020K518	1000P 50V K B TA26
		C905	OCX1000K408	10P 50V J SL TA26
		C906	OCX1000K408	10P 50V J SL TA26
		C908	OCN1020K518	1000P 50V K B TA26
		C911	OCN1020K518	1000P 50V K B TA26
		C912	OCE477CF638	470UF SHL TYPE 16V M FM5 TP 5
		C918	OCN1020K518	1000P 50V K B TA26
		C923	OCN1020K518	1000P 50V K B TA26
		C924	OCN1020K518	1000P 50V K B TA26
		C941	OCE1064F638	10M SRA 16V M FM5 TP(5)
		C942	OCE1054K636	1.0U SRA 50V M FM5 BP TP(D)
		C948	OCE1064F638	10M SRA 16V M FM5 TP(5)
		C949	OCN1040K948	0.1UF 50V Z F TA26 D
		C950	OCE1064F638	10M SRA 16V M FM5 TP(5)
		C951	OCE4764F638	47M SRA/SS 16V M FM5 TP(5)
		C953	OCN8200K518	82PF 50V K B TA26
		C955	OCX4300K408	43P 50V J SL TA26
		C9F1	OCN1020K518	1000P 50V K B TA26

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		C9F2	OCN1020K518	1000P 50V K B TA26
		CF01	OCN1040K948	0.1UF 50V Z F TA26 D
		CF02	OCN4720F668	4700P 16V M X TA26
		CF03	OCN1020K518	1000P 50V K B TA26
		CF04	OCN1020K518	1000P 50V K B TA26
		CF05	OCN1020K518	1000P 50V K B TA26
		CF06	OCN1040K948	0.1UF 50V Z F TA26 D
		CF07	OCN1040K948	0.1UF 50V Z F TA26 D
		ZD902	OCX2200K408	22P 50V J SL TP26
DIODE				
	OR	BD101	0DD160000DA	S1WBA60(1A 600V) SHIDENKEN
		D102	0DD010009CA	EG01CW(R-FORM 5MM) TP SANKEN
		D102	0DD221009AA	ERA22-10 KFLB,TP ,R T/P,FUJI
		D104	0DD010009AC	EU01W(R-FORM) TP SANKEN
		D105	0DD010009AC	EU01W(R-FORM) TP SANKEN
		D106	0DR810040BA	ERC81-004L22 BK FUJI DO201AD 4
		D107	0DR180209AA	ERA18-02KFRB TP FUJI DO204AL 2
		D108	0DD010009AC	EU01W(R-FORM) TP SANKEN
		D109	0DD400000AD	RU4YXLF(015-305) M20 SANKEN
		D151	0DD133009AA	1SS133 DETECT,SW TP
	OR	D152	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH
	OR	D152	0DR104009AB	RL104 R. TP GULF SEMICONDUCTOR
	OR	D154	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH
		D154	0DR104009AB	RL104 R. TP GULF SEMICONDUCTOR
	OR	D155	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH
		D155	0DR104009AB	RL104 R. TP GULF SEMICONDUCTOR
		D301	0DD133009AA	1SS133 DETECT,SW TP
		D302	0DD133009AA	1SS133 DETECT,SW TP
		D502	0DD133009AA	1SS133 DETECT,SW TP
		D509	0DD133009AA	1SS133 DETECT,SW TP
		D751	0DD400309AB	IN4003A(1SR35-200A)5M/M TP ROH
		DJ03	0DD133009AA	1SS133 DETECT,SW TP
		DJ06	0DD133009AA	1SS133 DETECT,SW TP
		DJ09	0DD133009AA	1SS133 DETECT,SW(VS-J718EO-DN)
		DJ10	0DD133009AA	1SS133 DETECT,SW TP
		DJ19	0DD133009AA	1SS133 DETECT,SW TP
		DJ22	0DD133009AA	1SS133 DETECT,SW TP
LEVEL METER				
		DIG5F1	6302R1P003B	7-MT-233GK AKAI MONO FUTABA PA
FUSE				
	OR	F101	585-011C	T 1.6A 250V S506
		F101	585-011T	1600MA 250 V 5.2X20 CY/GL SEMK
FILTER				
		L102	616-145H	SHT LFS2020V4-04350
IC				
	OR	F103	0IRH100000B	ICP-N10 T104 TP IC DETACT
		IC101	0ISK615300A	STR-G6153T 5PIN FM CUT BK PWM
		IC103	0IKE431000A	KIA431 3 PIN TP
		IC103	0ISS431000A	KA431AZ (LM431AZ)
		IC301	0ISA715910A	LA71591M 100QFP BK AVCP 1CHIP
		IC501	0IGS397766A	GMS3977RA-A66F 100QFP BK MICOM
		IC502	0ISS308200A	KA3082 10-SIP BK MOTOR DRIVE
		IC503	0IAL241600B	AT24C16-10PC 8D EEPROM 16K
		IC504	0IKE703100A	KIA7031P 3P 3.1V RESET(TAPING)

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	OR	IC504	0ISS753100A	KA7531Z TO-92 TP 3.1V RESET
		IC505	0IKE704200B	KIA7042P 3P 4.2V RESET(TAPING)
	OR	IC505	0ISS754200A	KA7542Z RESET TO92 TP 4.2V
		IC5F1	0ISA866024A	LC866024W-5M41 64QFP BK MICOM
		IC751	0IIT341700A	MSP3417D 52PSDIP BK NICAM+A2 P
		IC7V1	0ISA747930A	LC74793/JM DIP24S BK VPS+PDC
		IC801	0IPH960500A	TDA9605H QFP44 BK HIFI AMP+HIF
		IC901	0IRH763500A	BH7635S DIP24 BK CANAL S/W
JACK				
		JK902	572-036H	BJP 03-01-G BAEUN 2 ANGLE WH
		JK9F3	572-075D	BJP-202L (YELLOW)
		JK9F4	572-075C	BJP-202L (WHITE)
		JK9F5	572-075B	BJP-202L (RED)
COIL				
		BC101	636-004C	BEAD CORE BFS3550R2FD8,R T/P
		BC102	636-004C	BEAD CORE BFS3550R2FD8,R T/P
		L103	633-088G	CHOCK(22MH) TP 5MM
		L104	633-088G	CHOCK(22MH) TP 5MM
		L105	0LA1000K018	100M K 2.3X3.4 L5 TP
		L301	0LR0102K0P5	LF7.5N OEL 100UH 10% TP 4.8X4.0
		L302	0LA0562K018	56M K 2.3X3.4 L5 TP
		L303	0LA0332K018	33M K 2.3X3.4 L5 TP
		L304	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L306	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L307	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L308	0LA0122K018	12M K 2.3X3.4 L5 TP
		L309	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L401	0LA0821K018	8.2M K 2.3X3.4 L5 TP
		L402	0LR6801J045	6800U J 6X7 L5 TP
		L405	0LR0102K0P5	LF7.5N OEL 100UH 10% TP 4.8X4.0
		L502	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L503	0LA1000K018	100M K 2.3X3.4 L5 TP
		L505	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L506	635-027C	EL0405RA SKI150G-3 K-TDK 15UH
		L5S1	0LA0332K018	33M K 2.3X3.4 L5 TP
		L5W1	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L701	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L702	0LR0102K0P5	LF7.5N OEL 100UH 10% TP 4.8X4.0
		L703	0LR0102K0P5	LF7.5N OEL 100UH 10% TP 4.8X4.0
		L704	0LA0821K018	8.2M K 2.3X3.4 L5 TP
		L751	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L752	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L753	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L754	0LR6801J045	6800U J 6X7 L5 TP
		L755	0LR6801J045	6800U J 6X7 L5 TP
		L7M1	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L7V1	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L801	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L802	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L901	0LA1000K018	100M K 2.3X3.4 L5 TP
		L902	0LA1000K018	100M K 2.3X3.4 L5 TP
		L904	0LA1000K018	100M K 2.3X3.4 L5 TP
		L905	636-004C	BEAD CORE BFS3550R2FD8,R T/P
		L906	0LA1000K018	100M K 2.3X3.4 L5 TP
		L907	636-004C	BEAD CORE BFS3550R2FD8,R T/P
		L908	636-004C	BEAD CORE BFS3550R2FD8,R T/P
		L911	0LA1000K018	100M K 2.3X3.4 L5 TP
		L912	0LA1000K018	100M K 2.3X3.4 L5 TP
		L914	0LA1000K018	100M K 2.3X3.4 L5 TP

S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		L916	0LA1000K018	100M K 2.3X3.4 L5 TP
		L924	0LA1000K018	100M K 2.3X3.4 L5 TP
		L926	0LA1000K018	100M K 2.3X3.4 L5 TP
		L941	0LR1000K0P5	LF7.5N OEL 100UH 10% TP 4.8X4
		L9F4	0LA1000K018	100M K 2.3X3.4 L5 TP
		L9F5	0LA1000K018	100M K 2.3X3.4 L5 TP
		TL401	633-032K	BIAC OSC,1CHIP 5V(KS-75M)
LED				
		LD5P1	0DL100000BB	LTE-16KEE BK LITEON RED
CIRCUIT BOARD ASSEMBLY				
		PBM00	6871R-1236D	MAIN (VS-J718EO-D)
		PBM00	6871R-1236H	MAIN (VS-J718EO-DN)
TRANSFORMER				
		T101	642-023M	S/W TRANS EER2828 WIDE X-PJT
TRANSISTOR				
	OR	Q151	0TR320509AB	KTC3205-TP-Y (KTC2236A)KEC
		Q152	0TR320309AA	KTC3203-Y (KTC2120) TP KEC 10P
		Q153	0TR280400AA	KTC2804-Y BK KEC TO126
		Q154	0TR319809AC	KTC3198-TP-BL (KTC1815)KEC
		Q155	0TR103009AF	KRA103M-TP (KRA2203) KEC
		Q156	0TR320309AA	KTC3203-Y (KTC2120) TP KEC 10P
		Q157	0TR103009AF	KRA103M-TP (KRA2203) KEC
		Q158	0TR126809BA	KTA1268-BL TP KEC
		Q158	0TR709009AE	KSA709C-Y TP SAMSUNG TO-92
		Q159	0TR127309AA	KTA1273-TP-Y (KTA966A)KEC
		Q160	0TR101009AF	KRC101M(TO92M),4.7-4.7,KEC
		Q161	0TR101009AF	KRC101M(TO92M),4.7-4.7,KEC
		Q162	0TR127309AA	KTA1273-TP-Y (KTA966A)KEC
		Q164	0TR127309AA	KTA1273-TP-Y (KTA966A)KEC
		Q165	0TR101009AF	KRC101M(TO92M),4.7-4.7,KEC
		Q301	0TR319909AF	KTC3199-BL MINI TP KEC
		Q302	0TR319909AF	KTC3199-BL MINI TP KEC
		Q303	0TR126709AC	KTA1267-GR MINI TP KEC
		Q304	0TR319909AF	KTC3199-BL MINI TP KEC
		Q305	0TR126709AC	KTA1267-GR MINI TP KEC
		Q3A1	0TR319909AF	KTC3199-BL MINI TP KEC
		Q3A2	0TR319909AF	KTC3199-BL MINI TP KEC
		Q401	0TR126709AC	KTA1267-GR MINI TP KEC
		Q402	0TR126709AC	KTA1267-GR MINI TP KEC
		Q403	0TR319909AF	KTC3199-BL MINI TP KEC
		Q404	0TR319909AF	KTC3199-BL MINI TP KEC
		Q405	0TR320309AA	KTC3203-Y (KTC2120) TP KEC 10P
		Q501	0TR319909AF	KTC3199-BL MINI TP KEC
		Q502	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q503	0TR127309AA	KTA1273-TP-Y (KTA966A)KEC
		Q514	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q515	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q5A1	0TR319909AF	KTC3199-BL MINI TP KEC
		Q5P1	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q5S2	0TR319909AF	KTC3199-BL MINI TP KEC
		Q701	0TR126709AC	KTA1267-GR MINI TP KEC
		Q751	0TR103009AE	KRC103M-TP (KRC1203) KEC
		Q752	0TR126709AC	KTA1267-GR MINI TP KEC
		Q753	0TR319909AF	KTC3199-BL MINI TP KEC
		Q754	0TR319909AF	KTC3199-BL MINI TP KEC
		QF01	0TR319909AF	KTC3199-BL MINI TP KEC

S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		QF02	OTR126709AC	KTA1267-GR MINI TP KEC
		QF03	OTR103009AE	KRC103M-TP (KRC1203) KEC
RESISTOR				
		C302	ORD2202F608	22K 1/6W 5 TA26
		FR02	ORF0471Q619	4.7 OHM 1/4 W (3.4) 5% TR
		R101	614-007R	2.7 OHM 2 W 5% TR RWR
		R102	ORS1003K619	100K OHM 2 W 5% TR
		R103	ORD0821F608	8.2 1/6W 5 TA26
		R104	ORS5602K619	56KOHM 2 W 5% TR
		R109	ORS0350K619	0.35 OHM 2 W 5% TR
		R114	ORD1003F608	100K 1/6W 5 TA26
		R116	ORD3300F608	330 1/6W 5 TA26
		R117	ORD2201F608	2.2K 1/6W 5 TA26
		R118	ORD1001F608	1.0K 1/6W 5 TA26
		R119	ORN3301F408	3.3K 1/6W 1 TA26
		R120	ORN2701F408	2.70K 1/6W 1% TA26
		R121	ORD1800F608	180 1/6W 5 TA26
		R127	ORD1501F608	1.5K 1/6W 5 TA26
		R151	ORD1201F608	1.2K 1/6W 5 TA26
		R152	ORD1201F608	1.2K 1/6W 5 TA26
		R154	ORD1001F608	1.0K 1/6W 5 TA26
		R155	ORD2702F608	27K 1/6W 5 TA26
		R156	ORD1002F608	10K 1/6W 5 TA26
		R157	ORD1001F608	1.0K 1/6W 5 TA26
		R158	ORD2700F608	270 1/6W 5 TA26
		R159	ORD3300F608	330 1/6W 5 TA26
		R161	ORD2700F608	270 1/6W 5 TA26
		R162	ORD3300F608	330 1/6W 5 TA26
		R164	ORD1202F608	12K 1/6W 5 TA26
		R165	ORD1202F608	12K 1/6W 5 TA26
		R166	ORD2201F608	2.2K 1/6W 5 TA26
		R167	ORD2201F608	2.2K 1/6W 5 TA26
		R169	ORD1001F608	1.0K 1/6W 5 TA26
		R170	ORD1001F608	1.0K 1/6W 5 TA26
		R171	ORD3901F608	3.9K 1/6W 5 TA26
		R201	ORD4700F608	470 1/6W 5 TA26
		R302	ORD1002F608	10K 1/6W 5 TA26
		R303	ORD1802F608	18K 1/6W 5 TA26
		R304	ORD1002F608	10K 1/6W 5 TA26
		R305	ORD1501F608	1.5K 1/6W 5 TA26
		R306	ORD3300F608	330 1/6W 5 TA26
		R307	ORD3300F608	330 1/6W 5 TA26
		R308	ORD2701F608	2.7K 1/6W 5 TA26
		R309	ORD8200F608	820 1/6W 5 TA26
		R310	ORD1001F608	1.0K 1/6W 5 TA26
		R311	ORD4701F608	4.7K 1/6W 5 TA26
		R312	ORD1801F608	1.8K 1/6W 5 TA26
		R313	ORD4700F608	470 1/6W 5 TA26
		R316	ORD1500F608	150 1/6W 5 TA26
		R317	ORD8202F608	82K 1/6W 5 TA26
		R318	ORD4701F608	4.7K 1/6W 5 TA26
		R319	ORD1001F608	1.0K 1/6W 5 TA26
		R321	ORD1501F608	1.5K 1/6W 5 TA26
		R322	ORD8201F608	8.2K 1/6W 5 TA26
		R323	ORD5601F608	5.6K 1/6W 5 TA26
		R324	ORD1002F608	10K 1/6W 5 TA26
		R325	ORD1001F608	1.0K 1/6W 5 TA26
		R326	ORD2701F608	2.7K 1/6W 5 TA26
		R333	ORD1802F608	18K 1/6W 5 TA26
		R335	ORD1802F608	18K 1/6W 5 TA26
		R338	ORD2700F608	270 1/6W 5 TA26

S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		R340	ORD1802F608	18K 1/6W 5 TA26
		R341	ORD2701F608	2.7K 1/6W 5 TA26
		R349	ORD5601F608	5.6K 1/6W 5 TA26
		R350	ORD4700F608	470 1/6W 5 TA26
		R390	ORD5601F608	5.6K 1/6W 5 TA26
		R3A1	ORD2201F608	2.2K 1/6W 5 TA26
		R3A2	ORD4702F608	47K 1/6W 5 TA26
		R3A3	ORD1001F608	1.0K 1/6W 5 TA26
		R3B1	ORD4701F608	4.7K 1/6W 5 TA26
		R402	ORD2204F608	2.2M 1/6W 5 TA26
		R403	ORD6801F608	6.8K 1/6W 5 TA26
		R404	ORD2700F608	270 1/6W 5 TA26
		R406	ORD2701F608	2.7K 1/6W 5 TA26
		R407	ORD2202F608	22K 1/6W 5 TA26
		R408	ORD2201F608	2.2K 1/6W 5 TA26
		R409	ORD4701F608	4.7K 1/6W 5 TA26
		R410	ORD1002F608	10K 1/6W 5 TA26
		R411	ORD2202F608	22K 1/6W 5 TA26
		R412	ORD1801F608	1.8K 1/6W 5 TA26
		R413	ORD8201F608	8.2K 1/6W 5 TA26
		R414	ORD1202F608	12K 1/6W 5 TA26
		R415	ORD3303F608	330K 1/6W 5 TA26
		R416	ORD1500F608	150 1/6W 5 TA26
		R417	ORD1001F608	1.0K 1/6W 5 TA26
		R418	ORD2702F608	27K 1/6W 5 TA26
		R419	ORD0472F608	47 1/6W 5 TA26
		R420	ORD1001F608	1.0K 1/6W 5 TA26
		R421	ORD0221F608	2.2 1/6W 5 TA26
		R422	ORD5600F608	560 1/6W 5 TA26
		R424	ORD2700F608	270 1/6W 5 TA26
		R425	ORD4702F608	47K 1/6W 5 TA26
		R430	ORD3901F608	3.9K 1/6W 5 TA26
		R431	ORD4701F608	4.7K 1/6W 5 TA26
		R490	ORD4702F608	47K 1/6W 5 TA26
		R491	ORD1202F608	12K 1/6W 5 TA26
		R500	ORF0681J619	6.8 OHM 1 W 5% TR
		R501	ORD1000F608	100 1/6W 5 TA26
		R502	ORD1000F608	100 1/6W 5 TA26
		R504	ORD1001F608	1.0K 1/6W 5 TA26
		R505	ORD1001F608	1.0K 1/6W 5 TA26
		R506	ORD1001F608	1.0K 1/6W 5 TA26
		R507	ORD1001F608	1.0K 1/6W 5 TA26
		R508	ORD3301F608	3.3K 1/6W 5 TA26
		R509	ORD4701F608	4.7K 1/6W 5 TA26
		R510	ORD2201F608	2.2K 1/6W 5 TA26
		R511	ORD1001F608	1.0K 1/6W 5 TA26
		R512	ORD1001F608	1.0K 1/6W 5 TA26
		R513	ORD1003F608	100K 1/6W 5 TA26
		R515	ORD2700F608	270 1/6W 5 TA26
		R517	ORD1004F608	1.0M 1/6W 5 TA26
		R518	ORD5600F608	560 1/6W 5 TA26
		R519	ORD2702F608	27K 1/6W 5 TA26
		R520	ORD5601F608	5.6K 1/6W 5 TA26
		R521	ORD3301F608	3.3K 1/6W 5 TA26
		R522	ORD1001F608	1.0K 1/6W 5 TA26
		R523	ORD1502F608	15K 1/6W 5 TA26
		R525	ORD5601F608	5.6K 1/6W 5 TA26
		R526	ORD5601F608	5.6K 1/6W 5 TA26
		R527	ORD5600F608	560 1/6W 5 TA26
		R528	ORD1002F608	10K 1/6W 5 TA26
		R529	ORD1002F608	10K 1/6W 5 TA26
		R531	ORD1002F608	10K 1/6W 5 TA26

S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		R534	ORD1004F608	1.0M 1/6W 5 TA26
		R535	ORD4703F608	470K 1/6W 5 TA26
		R542	ORD2201F608	2.2K 1/6W 5 TA26
		R543	ORD1000F608	100 1/6W 5 TA26
		R544	ORD4701F608	4.7K 1/6W 5 TA26
		R545	ORD2201F608	2.2K 1/6W 5 TA26
		R546	ORD5601F608	5.6K 1/6W 5 TA26
		R547	ORD1202F608	12K 1/6W 5 TA26
		R548	ORD1003F608	100K 1/6W 5 TA26
		R550	ORD2200F608	220 1/6W 5 TA26
		R553	ORD2200F608	220 1/6W 5 TA26
		R555	ORD2200F608	220 1/6W 5 TA26
		R556	ORD2202F608	22K 1/6W 5 TA26
		R557	ORD2702F608	27K 1/6W 5 TA26
		R558	ORD2202F608	22K 1/6W 5 TA26
		R559	ORD4701F608	4.7K 1/6W 5 TA26
		R560	ORD4701F608	4.7K 1/6W 5 TA26
		R561	ORD5600F608	560 1/6W 5 TA26
		R562	ORD5600F608	560 1/6W 5 TA26
		R563	ORD1002F608	10K 1/6W 5 TA26
		R564	ORD2702F608	27K 1/6W 5 TA26
		R567	ORD1801F608	1.8K 1/6W 5 TA26
		R568	ORD6803F608	680K 1/6W 5 TA26
		R569	ORD1004F608	1.0M 1/6W 5 TA26
		R570	ORD4701F608	4.7K 1/6W 5 TA26
		R575	ORD4701F608	4.7K 1/6W 5 TA26
		R576	ORD4701F608	4.7K 1/6W 5 TA26
		R577	ORD4701F608	4.7K 1/6W 5 TA26
		R578	ORD4701F608	4.7K 1/6W 5 TA26
		R579	ORD5602F608	56K 1/6W 5 TA26
		R581	ORD6802F608	68K 1/6W 5 TA26
		R583	ORD1002F608	10K 1/6W 5 TA26
		R586	ORD2201F608	2.2K 1/6W 5 TA26
		R589	ORD1004F608	1.0M 1/6W 5 TA26
		R590	ORD1001F608	1.0K 1/6W 5 TA26
		R5A1	ORD6802F608	68K 1/6W 5 TA26
		R5A2	ORD1003F608	100K 1/6W 5 TA26
		R5A3	ORD5602F608	56K 1/6W 5 TA26
		R5A4	ORD2202F608	22K 1/6W 5 TA26
		R5B1	ORD1001F608	1.0K 1/6W 5 TA26
		R5B3	ORD1001F608	1.0K 1/6W 5 TA26
		R5B4	ORD1001F608	1.0K 1/6W 5 TA26
		R5B5	ORD1000F608	100 1/6W 5 TA26
		R5C1	ORD1001F608	1.0K 1/6W 5 TA26
		R5C2	ORD1001F608	1.0K 1/6W 5 TA26
		R5C3	ORD1001F608	1.0K 1/6W 5 TA26
		R5C4	ORD1001F608	1.0K 1/6W 5 TA26
		R5C5	ORD1001F608	1.0K 1/6W 5 TA26
		R5C6	ORD1001F608	1.0K 1/6W 5 TA26
		R5C7	ORD1001F608	1.0K 1/6W 5 TA26
		R5C9	ORD1002F608	10K 1/6W 5 TA26
		R5F0	ORD0102F608	10 1/6W 5 TA26
		R5F1	ORD0102F608	10 1/6W 5 TA26
		R5F2	ORD0152F608	15 1/6W 5 TA26
		R5F3	ORD0152F608	15 1/6W 5 TA26
		R5H2	ORD3300F608	330 1/6W 5 TA26
		R5K1	ORD1801F608	1.8K 1/6W 5 TA26
		R5K2	ORD1501F608	1.5K 1/6W 5 TA26
		R5K3	ORD2201F608	2.2K 1/6W 5 TA26
		R5K4	ORD2701F608	2.7K 1/6W 5 TA26
		R5K5	ORD3901F608	3.9K 1/6W 5 TA26
		R5K6	ORD6801F608	6.8K 1/6W 5 TA26

S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		R5K7	ORD1202F608	12K 1/6W 5 TA26
		R5P1	ORD3300F608	330 1/6W 5 TA26
		R5P2	ORD1002F608	10K 1/6W 5 TA26
		R5P3	ORD1002F608	10K 1/6W 5 TA26
		R5S2	ORD6801F608	6.8K 1/6W 5 TA26
		R5S3	ORD3300F608	330 1/6W 5 TA26
		R5T1	ORD1801F608	1.8K 1/6W 5 TA26
		R5X1	ORD1001F608	1.0K 1/6W 5 TA26
		R5X2	ORD1001F608	1.0K 1/6W 5 TA26
		R5X3	ORD1001F608	1.0K 1/6W 5 TA26
		R5X4	ORD1001F608	1.0K 1/6W 5 TA26
		R5X5	ORD1000F608	100 1/6W 5 TA26
		R5X6	ORD1000F608	100 1/6W 5 TA26
		R5X7	ORD1000F608	100 1/6W 5 TA26
		R5X8	ORD1001F608	1.0K 1/6W 5 TA26
		R5X9	ORD6802F608	68K 1/6W 5 TA26
		R704	ORD4700F608	470 1/6W 5 TA26
		R706	ORD2200F608	220 1/6W 5 TA26
		R707	ORD2200F608	220 1/6W 5 TA26
		R751	ORD1001F608	1.0K 1/6W 5 TA26
		R752	ORD1000F608	100 1/6W 5 TA26
		R753	ORD1000F608	100 1/6W 5 TA26
		R754	ORD6800F608	680 1/6W 5 TA26
		R755	ORD6800F608	680 1/6W 5 TA26
		R756	ORD2201F608	2.2K 1/6W 5 TA26
		R757	ORD2201F608	2.2K 1/6W 5 TA26
		R758	ORD3902F608	39K 1/6W 5 TA26
		R791	ORD2201F608	2.2K 1/6W 5 TA26
		R792	ORD2201F608	2.2K 1/6W 5 TA26
		R793	ORD1001F608	1.0K 1/6W 5 TA26
		R794	ORD1001F608	1.0K 1/6W 5 TA26
		R7C1	ORD4700F608	470 1/6W 5 TA26
		R7M1	ORD1001F608	1.0K 1/6W 5 TA26
		R7M3	ORD1001F608	1.0K 1/6W 5 TA26
		R7M5	ORD2200F608	220 1/6W 5 TA26
		R7V4	ORD2201F608	2.2K 1/6W 5 TA26
		R7V5	ORD1002F608	10K 1/6W 5 TA26
		R7V6	ORD5601F608	5.6K 1/6W 5 TA26
		R817	ORD2204F608	2.2M 1/6W 5 TA26
		R818	ORD3302F608	33K 1/6W 5 TA26
		R819	ORD2701F608	2.7K 1/6W 5 TA26
		R820	ORD5602F608	56K 1/6W 5 TA26
		R821	ORD2701F608	2.7K 1/6W 5 TA26
		R822	ORD3302F608	33K 1/6W 5 TA26
		R823	ORD4700F608	470 1/6W 5 TA26
		R824	ORD1000F608	100 1/6W 5 TA26
		R825	ORD5600F608	560 1/6W 5 TA26
		R826	ORD1802F608	18K 1/6W 5 TA26
		R827	ORD1002F608	10K 1/6W 5 TA26
		R828	ORD1001F608	1.0K 1/6W 5 TA26
		R829	ORD1004F608	1.0M 1/6W 5 TA26
		R830	ORD1203F608	120K 1/6W 5 TA26
		R831	ORD1001F608	1.0K 1/6W 5 TA26
		R901	ORD0752F608	75 1/6W 5 TA26
		R902	ORD0752F608	75 1/6W 5 TA26
		R905	ORD5600F608	560 1/6W 5 TA26
		R906	ORD5600F608	560 1/6W 5 TA26
		R911	ORD0752F608	75 1/6W 5 TA26
		R912	ORD0752F608	75 1/6W 5 TA26
		R915	ORD5600F608	560 1/6W 5 TA26
		R916	ORD5600F608	560 1/6W 5 TA26
		R925	ORD5600F608	560 1/6W 5 TA26

S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
		R926	ORD5600F608	560 1/6W 5 TA26
		R933	ORD1202F608	12K 1/6W 5 TA26
		R934	ORD1002F608	10K 1/6W 5 TA26
		R947	ORD3300F608	330 1/6W 5 TA26
		R948	ORD3300F608	330 1/6W 5 TA26
		R949	ORD1000F608	100 1/6W 5 TA26
		R950	ORD1000F608	100 1/6W 5 TA26
		R9F3	ORD0752F608	75 1/6W 5 TA26
		RF01	ORD2200F608	220 1/6W 5 TA26
		RF02	ORD4702F608	47K 1/6W 5 TA26
		RF03	ORD5601F608	5.6K 1/6W 5 TA26
		RF04	ORD5601F608	5.6K 1/6W 5 TA26
		RF05	ORD4702F608	47K 1/6W 5 TA26
		RF06	ORD4702F608	47K 1/6W 5 TA26
		RF07	ORD1002F608	10K 1/6W 5 TA26
		RF08	ORD1002F608	10K 1/6W 5 TA26
		RF09	ORD1002F608	10K 1/6W 5 TA26
		RF10	ORD4701F608	4.7K 1/6W 5 TA26
		RF11	ORD2200F608	220 1/6W 5 TA26
		RF12	ORD1002F608	10K 1/6W 5 TA26
		RF13	ORD4701F608	4.7K 1/6W 5 TA26
		RF14	ORD4702F608	47K 1/6W 5 TA26
REMOCON RECEIVER				
		R/C5F1	6712R2938GA	TSOP1238SP1 TEMIC 29.6MM 37.9K
SENSOR				
		ES501	4931R-0016A	END
		ES502	4931R-0016A	END
		IC102	657-062B	PC123Y PHOTO-COUPLER(SARPH)
	OR	IC102	657-063A	LTV-817B, PHOTO COUPLER(LITEON)
		LD501	4931R-0017A	LED
		RS501	6500RAB002A	GP1S566 SHARP D-33 REEL SENSOR
		RS502	6500RAB002A	GP1S566 SHARP D-33 REEL SENSOR
SWITCH				
	OR	CS501	6600RDB004B	SPPB62042 ALPS UL 5V 0A HORIZO
		CS501	6600RDB004C	MPU10252MLB4 MIC NON 5V 0.01A
		MS501	6600RPY001B	MMS00420ZMBO MIC NON 5V 1MA VE
		SW5A2	556-213C	SKHV10912A LGEC NON 12V 5A VER
		SW5K1	556-282C	SKQNQED ALPS 5MM 12V/50MAV TAC
		SW5K2	556-282C	SKQNQED ALPS 5MM 12V/50MAV TAC
		SW5K3	556-282C	SKQNQED ALPS 5MM 12V/50MAV TAC
		SW5K4	556-282C	SKQNQED ALPS 5MM 12V/50MAV TAC
		SW5K5	556-282C	SKQNQED ALPS 5MM 12V/50MAV TAC
		SW5K6	556-282C	SKQNQED ALPS 5MM 12V/50MAV TAC
		SW5K7	556-282C	SKQNQED ALPS 5MM 12V/50MAV TAC
		SW5K8	556-282C	SKQNQED ALPS 5MM 12V/50MAV TAC
		SW5T1	556-213C	SKHV10912A LGEC NON 12V 5A VER
TUNER				
		TU701	6700RP3G01E	TCMK0601PD08C SS G/K/I HIFI 3I
	OR	TU701	6700RP3L02E	TADC-G006D LGC&D G/K/I HIFI 3I
VARIABLE RESISTOR				
		VR501	613-032W	RH063MCJ5R (220K)
CRYSTAL				

S	AL	LOCA.NO	PART NO(GS)	SPECIFICATION
	OR	X502	529-001B	32.768KHZ 3*8,KDS
		X502	529-001K	32.768KHZ SEIKO
		X751	529-021Q	18.432MHZ DBS KUKJAE
RESONATOR				
	OR	X301	6202R1443AC	X-TAL 4.433709M 15PPM SER KJE
	OR	X301	6202R1443AD	4.433709M 15PPM SER SUNNY
		X301	6202R1443AE	TAEIL HC49U 4.433709MHZ 15PPM
	OR	X501	6202R31001E	ATS TAEIL RADIAL 10.0000MHZ 30
		X501	6202R31001F	HC-49S KEUMSEOK RADIAL 10.0000
	OR	X503	6202R31771E	ATS TAEIL RADIAL 17.734476MHZ
		X503	6202R31771F	HC-49S KEUMSEOK RADIAL 17.7344
		X5F1	6212RT0004A	CST12.0MTW MURATA 12MHZ TP LC8
	OR	X7V1	6202R31771E	ATS TAEIL RADIAL 17.734476MHZ
		X7V1	6202R31771F	HC-49S KEUMSEOK RADIAL 17.7344
ZENER DIODE				
		ZD104	0DZ560009CA	MTZ5.6B TP ROHM-K
		ZD151	0DZ130009AA	MTZ13A TP ROHM-K
		ZD152	0DZ100009FA	MTZ10-C T-77 10V TP,ROHM/K
		ZD153	0DZ130009AA	MTZ13A TP ROHM-K
		ZD501	0DZ680009CA	MTZ6.8C TP ROHM-K
		ZD503	0DZ680009CA	MTZ6.8C TP ROHM-K
		ZD701	0DZ330009AF	MTZ33B,TP,ROHM-K
		ZD801	0DZ560009CA	MTZ5.6B TP ROHM-K
		ZD802	0DZ130009AA	MTZ13A TP ROHM-K
		ZD808	0DZ560009CA	MTZ5.6B TP ROHM-K
		ZD810	0DZ130009AA	MTZ13A TP ROHM-K
		ZD905	0DZ130009AA	MTZ13A TP ROHM-K
		ZD9F1	0DZ620009AA	MTZ6.2B (TA)
		ZD9F2	0DZ620009AA	MTZ6.2B (TA)
		ZD9F3	0DZ130009AA	MTZ13A TP ROHM-K
		ZD9F4	0DZ130009AA	MTZ13A TP ROHM-K
		ZD9F5	0DZ130009AA	MTZ13A TP ROHM-K
		ZD9F6	0DZ130009AA	MTZ13A TP ROHM-K

MEMO

A series of horizontal dotted lines for writing.